

# The Mining Journal

## RAILWAY AND COMMERCIAL GAZETTE:

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper and for Transmission Abroad.]

No. 2330.—Vol. L.

LONDON, SATURDAY, APRIL 17, 1880.

[WITH SUPPLEMENT.] PRICE ..... SIXPENNY.  
PER ANNUM, BY POST, £1 4s.

**MR. JAMES H. CROFTS, STOCK AND SHARE BROKER,**  
AND MINING SHARE DEALER,  
No. 1, FINCH LANE, CORNHILL, LONDON, E.C.  
ESTABLISHED 1842.

BUSINESS transacted in all descriptions of MINING Stocks and Shares (British and Foreign), Consols, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Tramway, Shipping, Canal, Gas, Water, and Dock Shares, and all Miscellaneous Shares.

BUSINESS negotiated in Stocks and Shares not having a general market value.

Every Friday a general and reliable List issued (a copy of which will be forwarded regularly on application), containing closing prices of the week.

MINES INSPECTED.  
BANKERS: CITY BANK, LONDON—SOUTH CORNWALL BANK, ST. AUUSTELL.

SPECIAL DEALINGS in the following, or part:—  
20 Almada, 11s. 9d. 20 Ruby, £9 15s.  
10 Bedford United, 15s. 20 Killifreth, 18s. 20 Richmond, £15 1/4.  
25 Carnarvon Cop., 22s. 6d. 25 Leadhills, £2 7s. 6d. 5 Roman Gravel, £10 1/4.  
10 Devon Consols, £14 1/4. 25 Marke Valley, 25s. 5 Indian Gold, £2 3 3/4.  
10 East Crebore, 14s. 6d. 20 Nouveau Monde, £2. 10 Santa Barbara, £2 1/2.  
25 East Caradon, £2 1/4 c p. 25 N. Penstruthal, £1 1/4. 10 So. Condurow, £1 1/4.  
50 E. Roman Grav., 16s. 3 25 N. D'Essey, 20s. 20 South Darren, £2 1/4.  
25 Flagstaff, £2 6s. 3d. 20 N. Herodfoot, 11s. 6d. 20 South Crebore.  
50 Frontino, 20s. 20 Pandora, £1. 50 S. E. Wynad, £2.  
20 Glenrock, £2. 25 Port Nigel, £2 8s. 9d. 50 S. Penstruthal, 12s. 6.  
25 Glenroy, 28s. 50 Port Phillip, 10s. 20 Tankerville, £4 17s. 6d.  
50 Grogwinlon, £3 10s. 50 Prince of Wales, 16s. 20 U. Van & Glyn, 17s. 6d.  
20 Herodfoot, £4 5s. 80 Parys Copper, £1 12s. 50 West Phoenix, £2 1/4.  
25 Hington Down, 80 Pestarena, 6s. 10 Wheel Crebore, £4 1/4.

RAILWAYS—SPECIAL BUSINESS.

FOREIGN BONDS—SPECIAL BUSINESS.

Fortnightly accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.  
ESTABLISHED 1842.

**MR. W. H. BUMPUS, STOCK AND SHARE BROKER,**  
AND MINING SHARE DEALER,  
44, THREADNEEDLE STREET, LONDON, E.C.  
ESTABLISHED 1867.

BUSINESS transacted in STOCK EXCHANGE SECURITIES and MISCELLANEOUS SHARES of every description.

RAILWAYS, BANKS, FOREIGN and COLONIAL BONDS.

TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.

Accounts opened for the Fortnightly Settlement.

A List of Investments free on application.

Mr. BUMPUS has SPECIAL BUSINESS in the undermentioned:—  
50 Almada, 12s. 30 Flagstaff, £2 1/4. 35 No. Herodfoot, 12s. 6.  
40 Aberlyn, 22s. 6d. 20 Pen-yr-Orsedd, £2 1/4. 50 Pen-yr-Orsedd, £2 1/4.  
100 Bodidris, 10s. 10 Frongoch, £2 1/4. 25 Panullicello, £4 1/4.  
25 Blue Tent, £2 1/4. 15 Grogwinlon, 150 Port Phillip, 10s. 6d.  
5 Cape Copper, 5 Great Laxey, 30 Penhalls.  
50 Carnarvon, 22s. 100 Glenroy, 25s. 60 Pestarena, 7s.  
2 Carn Brea, 20 Great Holway, 60 Parys Copper, 33s.  
75 Consolidated, 18s. 6d. 50 Herodfoot, 10 Richmond, £15 1/4.  
50 Colorado, £3 13 10s. 50 Hington, 15 Roman Gravel, £11 1/4.  
10 Devon Cons., £13 18 9 100 Indian Glenrock, 39s. 10 Ruby, £9 13s. 9d.  
40 Derwent, £2 1/4. 70 Javali, 5s. 50 South Indian, £2 3 3/4.  
100 Don Pedro, 20s. 50 Killifreth, 20 Tankerville.  
3 Dolcoath, 20 Leadhills, £3 1/4. 10 Van.  
20 East Caradon, £3 1/4. 25 Marke Valley, 39s. 6d. 25 Wheel Sisters, £4 1/4.  
25 Eberhardt, 40 New Wheel Peavor, 5 Wheel Peavor.  
15 East Van, £3 1/4. 50 New Quebrada, £2 1/4. 50 Wheel Jewell, 19s.  
20 East Lovell, 100 Nouveau Monde, £2 1/4. 50 West Phoenix.  
50 E. Roman Grav., 16s. 100 Pen-yr-Orsedd, £2 1/4.

OFFERS WANTED for—  
20 House Property and Investment Company (Lim.) fully paid (£25) shares.  
20 General Share Trust Company (Limited) £10 shares, £5 paid.  
12 Bridgeman's Brickfields Co. (Lim.) 10 per cent. debenture bonds of £20 each.  
12 Montrose Slate Quarries (Limited) 12 per cent. debenture bonds of £20 each.  
10 London Rice Mill Company (Limited) £100 shares, £50 paid.  
3 Eberle's Hotels and Restaurant Company (Limited) fully paid (£10) shares.  
SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

Mr. BUMPUS devotes special attention to these Securities, and is in a position to afford reliable information and advice to intending investors and others. The following Mines are particularly recommended:—  
WHEAL GRENVILLE. WHEAL PEEVOR. WEST PHENIX.  
NEW PEEVOR. WHEAL SISTERS. SOUTH PHENIX.  
PEN-YR-ORSEDD. DERWENT. SOUTH DARREN.

WILLIAM HENRY BUMPUS, SWORN BROKER.

OFFICES: 44, THREADNEEDLE STREET, LONDON, E.C.  
ESTABLISHED 1867.

**FERDINAND R. KIRK, 5, BIRCHIN LANE,**  
LONDON, E.C.  
FORTNIGHTLY ACCOUNTS opened, on receipt of the usual "cover," in Railways Home and Foreign, Mining Shares, Foreign Bonds, and certain Miscellaneous Securities.

"THE WEEK"—A SEPARATE EDITION from that which appears in the Mining Journal is published every Wednesday evening, containing "Notes and Hints on the Stock Markets," with Closing Prices. May be had on application. BANKERS: LONDON AND WESTMINSTER, Lothbury.

**MR. E. J. BARTLETT, BRITISH AND FOREIGN STOCK**  
AND SHARE DEALER, No. 30, GREAT ST. HELEN'S, LONDON, E.C.  
PEN-YR-ORSEDD, GREAT HOLWAY, and WEST HOLWAY shares should have a great rise—rich courses of ore proved.  
JUST OUT.

HOW TO INVEST, post free, One Shilling, Fourteenth Edition, much enlarged.

**PENNINGTON AND CO., SWORN BROKERS,**  
3, ROYAL EXCHANGE BUILDINGS, E.C.  
Transact business in every description of Stocks and Shares.  
ESTABLISHED 1869.—BANKERS: ALLIANCE.

**MR. W. TREGELLAS, 19, BISHOPSGATE STREET**  
WITHIN, E.C.  
Deals in all descriptions of STOCKS and SHARES at close market prices, and always in a position to do business in SANTA BARBARA, PITANGUI, BRAZILIAN GOLD MINES.

**MR. GEORGE BUDGE, STOCK AND SHARE DEALER,**  
9, GRACECHURCH STREET, LONDON, E.C. (Established 28 years).  
ALL BUSINESS TRANSACTIONS FREE OF ANY CHARGE FOR COMMISSION.

Notice to Investors and Speculators.

Mr. BUDGE has DEALINGS in—  
25 East Caradon. 65 New Wye Valley.  
25 Bluen Cokan. 30 North Herodfoot.  
20 Blue Hills. 85 New Kitty.  
25 Blueny-God. 20 Penhalls.  
25 Carn Camborne. 50 Pen-yr-Orsedd.  
20 Carn Penf. 30 Penrose.  
10 Chontales. 20 Grogwinlon.  
100 Don Pedro. 20 Grogwinlon.  
100 Devon Consols. 20 Grogwinlon.  
20 East Van. 50 Hington Down.  
20 East Lovell. 20 Gunnislake (Chitlers).  
20 Herodfoot. 60 South-East Wynad.  
20 Hington Down. 25 West Kitty.  
20 New Quebrada. 25 Wheel Uny.  
20 Pen-yr-Orsedd. 75 Ystwith.  
20 Pen-yr-Orsedd. 75 Ystwith.

SPECIAL BUSINESS in Frongoch Shares as Buyer or Seller.  
Mr. BUDGE invites the attention of investors to the Wheal Coates United Tin Mine, St. Agnes, and he strongly recommends the purchase of these shares, 10s. paid, at 25s. each. This mine is no speculation, as the reserves of tin enable Mr. BUDGE to state that in a short time the mine will be making profits.

### STOCK AND SHARE MARKETS.

Prices of STOCKS and SHARES in RAILWAYS, BANKS, ENGLISH and FOREIGN GOVERNMENT SECURITIES, GAS, MINES, INSURANCE, and other Stock Exchange Securities, and various important information forwarded on application to—

Messrs. PETER WATSON AND CO.,

18, AUSTIN FRIARS,

OLD BROAD STREET, LONDON, E.C.

BUYER and SELLER of SHARES at the close Market Price of the day.  
BANKERS: THE ALLIANCE BANK (Limited).

**Messrs. PETER WATSON AND CO.'S**  
BRITISH AND FOREIGN MONTHLY MINING NEWS  
—STOCK AND SHARE INVESTMENT NOTES—MINES,  
MINERALS, AND METAL MARKETS—SHARE LIST,  
No. 816, Vol. XV., for MARCH month, is now ready, and will be sent to customers on application.

Annual Subscription..... 5s. | Single Copy..... 6d.

Messrs. PETER WATSON AND CO.,

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**MR. ALFRED E. COOKE,**  
DEALER at NET PRICES in EVERY DESCRIPTION of STOCKS and SHARES,  
76, OLD BROAD STREET, LONDON.  
ESTABLISHED 1853.

The NEXT NUMBER of the INVESTOR'S GAZETTE will be published next FRIDAY. Post free three stamps.

SPECIAL NOTICE.

Mr. COOKE'S Offices adjoin both the Stock Exchange and Mining Market, but for the further convenience of clients they are now in telegraphic communication with the Stock Exchange.

DAILY LIST of PRICES ISSUED TO CLIENTS.

ALFRED E. COOKE,

76, OLD BROAD STREET, LONDON.

ESTABLISHED 1853.

Over 13 years at the above offices, adjoining the Stock Exchange and Mining Markets.

STOCKS AND SHARES,  
FOREIGN BONDS, TELEGRAPHS, TRAMWAYS, RAILWAYS, AND  
OTHER LEADING SECURITIES.  
**MR. JAMES STOCKER, STOCKBROKER,**  
2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.  
ESTABLISHED 1848.  
BANKERS: LONDON AND WESTMINSTER.

**HORACE J. TAYLOR, STOCK AND SHARE DEALER,**  
33, GREAT ST. HELEN'S, LONDON, E.C.

(Late of the Port Phillip and Victoria Mining Companies.)

Business transacted at net prices in every description of Stocks and Shares.

SPECIAL DEALINGS in the undermentioned:—

25 Almada & Tiritio. 100 Devon Great Consols. 250 Port Phillip.  
100 Bedford United. 100 Eberhardt & Aurora. 100 Rossa Grande.  
100 Bwch United. 25 East Caradon. 50 South Darren.  
50 Consolidated. 50 Frontino. 75 So. India Gold.  
100 Colorado. 100 Hington Down. 20 Tankerville.  
75 Don Pedro. 25 Prince of Wales. 50 Victoria (London).  
20 Derwent. 500 Pestarena. 20 Wheel Kitty.

VICTORIA (London) are strongly recommended for increased dividends, and should be purchased at the present low price.

BANKERS: CENTRAL BANK OF LONDON (Limited).

**Messrs. W. DUNN & CO., STOCK & SHARE DEALERS,**  
3 AND 4, GREAT WINCHESTER STREET BUILDINGS,  
LONDON, E.C. ESTABLISHED 1868.

FOR SALE, at close market prices:—  
100 Bodidris. 20 Great Holway. 80 Tamar.  
50 Cambrian. 75 Llanwrst. 100 Llandegla.  
60 Denbighshire. 125 South Wheel Crebore. 25 Rhosmor.

**Messrs. ENDEAN AND CO., STOCK AND SHARE**  
DEALERS, 85, GRACECHURCH STREET, LONDON, E.C.  
ESTABLISHED 1861.

BANKERS: LONDON AND WESTMINSTER, Lothbury; and  
BARCLAY, BEVAN, and CO., Lombard-street, E.C.

Messrs. ENDEAN and Co. strongly advise the purchase of well selected Lead Mines at present low prices:—Van, Great Laxey, Roman Gravel, Llanwrst, and Tamar, also So. Indian Gold (Copper). The next great rise will be in Lead Shares, and many of those now offering will be eagerly sought after at considerably higher prices immediately there is a run upon them.

Messrs. ENDEAN and Co. are prepared to deal in all the shares they recommend at close prices.

Messrs. ENDEAN and Co. strongly advise the purchase of CARN CAMBORNE shares. This mine lies between Dolcoath and South Condurow; the former is selling for over £300,000, and the latter for nearly £80,000. Carn Camborne is in 6000 shares, now to be had for £2 5s. each. Vigorous operations will be at once commenced, and there is every reason to believe that Carn Camborne will prove in depth as rich as any of the great mines by which it is surrounded. Shares are CERTAIN to have a considerable rise in price. Good sales of tin and copper will be commenced within one month after the mine is in full work.

**MR. W. B. COBB, STOCK AND SHARE DEALER,**  
29, BISHOPSGATE-STREET, LONDON, E.C.

Business transacted in every description of Stocks and Shares. Fortnightly accounts opened on receipt of usual cover.

BWLCH UNITED.—The dressing-floors will shortly be ready to prepare for market the large quantity of ore now at surface. This concern is on the eve of dividend, and is strongly recommended for a rise.

BANKERS: ALLIANCE BANK (Limited).

**TO CAPITALISTS AND INVESTORS.—**  
LADY ASHBURTON SILVER MINING COMPANY (LIMITED), at par £1 per share.

FLINTSHIRE GREAT CONSOLS (LIMITED), at £1 7s. 6d. per share.

BETTS-WY-COED LEAD MINING ASSOCIATION (LIMITED), at £1 5s. per share.

ONLWYN and DULAIS COLLIERIES (LIMITED), at £5 5s. per share.

SOUTH WHEEL CREBORE (LIMITED), at £1 10s. per share.

For particulars on the above properties, apply to—

JOHN BANTING ROGERS,

ST. CLEMENTS' HOUSE, LOMBARD STREET, LONDON, E.C.

Monthly Investment Circulars post free on application.

**MR. W. MARLBOROUGH, STOCK AND SHARE DEALER,**  
29, BISHOPSGATE STREET, LONDON, E.C.

Can SELL the following SHARES at prices annexed:—

75 Almada, 11s. 9d. 20 Hington, £1 13s. 6d. 100 Rossa Grande, 6s. 6d.  
50 Birdseye Creek, 20s. 3 15 Herodfoot, £4 1/4. 20 Ruby Silver, £3 1/4.  
50 Chontales, 4s. 20 Leadhills, £2 1/4. 20 So. D'Essey, 35s.  
20 Colorado, £2. 20 Marke Valley. 20 So. Darren, £3 2s. 6d.  
50 Consolidated, 16s. 6d. 5 Minera, £11 2s. 6d. 50 So. Indian Gold, 41s. 3.  
70 Cedar Creek, 2s. 3d. 30 New Kitty. 40 Tamar Sil.-Lead, £1 1/4.  
10 Devon Consols, £13 1/4. 20 New Quebrada, £4 2s. 6. 2 Van, £19 1/4.  
50 Don Pedro, 20s. 50 Nou. Monde, £2 2s. 6. 40 Van & Glyn United, 17s.  
20 East Caradon, £3 1/4 (call paid). 100 Parys Copper, £1 12 1/2. 30 West Kitty, 37s. 6d.  
15 East Van, £3 8s. 9d. 100 Port Phillip, 10s. 3d. 20 West Phoenix, £2 7 1/2.  
20 Eberhardt, £4 5s. 20 Panullicello, £4 1/4. 10 Wheel Crebore, £2 1/4.  
30 Flagstaff, £1 13s. 9d. 50 Prince of Wales, 17s. 6d. 20 Wh. Grenville, £9 1/4.  
50 Glenroy, £1 4s. 6d. 50 So. Toicarne, 19s. 25 Ystwith, 33s. 6d.  
40 Glenrock Gold, £1 17 1/2.

BWLCH UNITED MINES—SPECIAL BUSINESS in these shares.

SOUTH WHEEL CREBORE (Limited), £1 fully pd., strongly recommended at £1 1/4.

### THE "DIFFERENTIAL" PUMPING ENGINE

(DAVEY'S PATENT).

FOR  
DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION,  
SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL  
PUMPING PURPOSES.

HATHORN, DAVEY, AND CO.,  
LEEDS.

HATHORN, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-horse power, and have facilities for supplying very powerful Engines and Pumps at a short notice.

See Illustrated Advertisement every alternate week.

**MR. CHARLES THOMAS,**  
MINING AGENT, STOCK AND SHARE DEALER,  
3, GREAT ST. HELEN'S, LONDON, E.C.

**MR. ALFRED THOMAS,**  
MINING AGENT, AND STOCK AND SHARE DEALER,  
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Second Edition, price 6d.  
"HOW TO TAKE ADVANTAGE OF THE COMING RISE IN PRICES."

TO INVESTORS, SHAREHOLDERS, TRUSTEES.  
SAFE DIVIDEND INVESTMENTS PAYING 4 TO 6 AND 10 PER CENT.  
PER ANNUM ON PRESENT OUTLAY.

**SHARP'S INVESTMENT CIRCULAR.**

The APRIL EDITION (post free).

SHOULD BE CONSULTED BY INVESTORS AND SHAREHOLDERS.

It is a Reliable "Guide," giving valuable information and Sound Advice, & it gives Market prices; Dividends upon outlay, when payable; Reports, &c., & IT CONTAINS ALL THE SAFE INVESTMENTS IN THE FOLLOWING:  
English, Foreign Railways. Insurance, Gas, Waterworks.  
Preference, Debenture Stocks. Colonial, Foreign Stocks.  
Indian, American Stocks. British, Foreign, Colonial Mines.  
Bank, Financial Shares. Ten, Land Shares.  
Tramway, Telegraph Shares. Shipping, Dock Shares.  
Municipal Bonds. Miscellaneous Shares, &c., &c.

HENRY GOULD SHARP, STOCK AND SHARE BROKER,

42, POULTRY, LONDON, E.C.—ESTABLISHED 1852.

BANKERS: LONDON AND WESTMINSTER, Lothbury, London, E.C.

NOTICE OF REMOVAL.

**GRANVILLE SHARP,**  
TO  
32, QUEEN VICTORIA STREET, LONDON, E.C.

**MR. EDWARD ASHMEAD** has REMOVED from  
Cornhill Chambers, 62, Cornhill, London, E.C., to  
No. 2, DRAPER'S GARDENS, THROGMORTON STREET,  
LONDON, E.C.

**JOHN B. REYNOLDS, STOCK AND SHARE DEALER,**

37, WALBROOK, LONDON, E.C.

ESTABLISHED 20 YEARS.—BANKERS: LONDON & SOUTH-WESTERN.

Mr. REYNOLDS deals promptly at close prices in all descriptions of Stocks and Shares, making a speciality of MINES, concerning which he can get accurate information.

Mr. REYNOLDS points to the results of his recommendation of Mines in the Peavor district as an illustration of the profits which can be made, and irrespective of market fluctuations, which no one can foresee.

He strongly advises the purchase of BLUE HILLS, WEST PEEVORS, and WEST KITTYS. Sellers or Buyers will find ready markets for these Shares at his offices or on the Stock Exchange.

He is prepared to BUY a large number of NEW KITTYS, which he also recommends for a rise in price and as an excellent investment.

Mr. REYNOLDS has made such exceptional arrangements as will enable him to hand over Stock bought immediately the cash is received; and thus he avoids the inconvenience arising from buyers having so long to wait for delivery after having remitted the purchase money.

### STOCKS AND SHARES.

FOREIGN BONDS, RAILWAYS, TRAMWAYS, GAS, INSURANCE,

IRON, COAL, and MISCELLANEOUS SHARES.

Prices, with reliable information, forwarded on application to—

Messrs. H. R. LEWIS AND CO.,

BARTHOLOMEW HOUSE,

BARTHOLOMEW LANE,  
LONDON, E.C.

SPECIAL INFORMATION in the SELECTION of MINING SECURITIES.

The "MINING TELEGRAPH," published Monthly, and "WEEKLY PRICE LIST" may be had on application.

**Messrs. J. TAYLOR AND CO.,**

MINING ENGINEERS AND INSPECTORS,

86, LONDON WALL, LONDON, E.C.,

Have Agents in England, Scotland, Wales, and on the Continent.

BUSINESS in VIRNEBERG Shares.

**MINERAL POINT TUNNEL COMPANY,**

COLORADO.

UNITED STATES.

GOVERNMENT.

ASSAY.

February, 1880.

1404 ozs. SILVER.

PER TON.

Messrs. J. MANSON, WOODS, and CO. are instructed to

OFFER FOR SALE NINE THOUSAND FIVE HUNDRED

fully paid Shares of \$10 each (£2 sterling) in the above company.

The property of the company consists of 40 proved lodes,

17 of which have been pierced by the Tunnel.

The "Robert E. Lee" Mine, on the same range, and only a

few miles distant from the M.P. Tunnel, has just turned out

\$113,500 in a 17 hours' working.

These shares will be sold at £2 10s. per share, and allot-

ments made forthwith in priority of application.

For Prospectus, Map, Pamphlet, and Report of J. TAYLOR

and Co., apply as above, Clarence Chambers, King William-

street, London Bridge.

**FRANCIS FRANKIS,**

MINING ENGINEER, STOCK AND SHARE DEALER,  
CORN EXCHANGE CHAMBERS, CHESTER.

SPECIAL BUSINESS in—HALKYN DISTRICT MINES DRAINAGE,

RHYDALUN, RHOSMOR, DEEP LEVEL, NORTH HENDRE, PEN-Y-

ORSEDD, YRON, TYDDYN-GWYNT, and other Mining Properties in the

Drainage areas. Also in PITANGUI, SANTA BARBARA, and other Brazilian

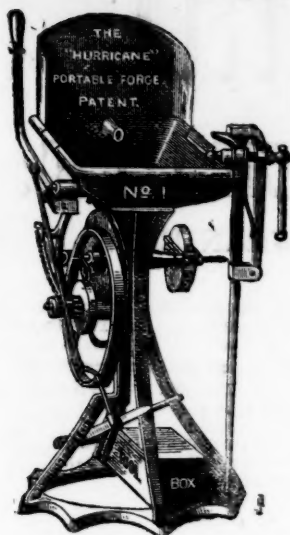
Gold Mines.

**MR. JOHN L. M. FRASER,**

(Fourteen Years at the Great Minera Mines)  
CONSULTING MINING ENGINEER, &c.,  
GREENFIELD HOUSE, WREXHAM.



A COMPLETE, PORTABLE, AND EFFICIENT SMITHY FOR £7 7s.



# THE "HURRICANE" PORTABLE FORGE

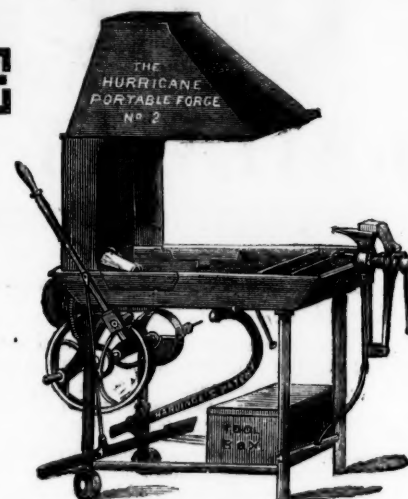
(HARDINGE'S PATENT).

A Complete and Portable Smithy, possessing a Powerful Blast, a Forge, a Hearth, a Vice, an Anvil, a Rivetter's Hearth,



a Brazier's Hearth, a Mine Ventilating Apparatus, a Tool Grinder (Emery), a Cutter, a Circular Saw and Bench, a Polishing Wheel, a Chuck, Two Drills, a Drill Rest, and a Tool Box.

PATENTED IN EUROPE AND AMERICA.



The "HURRICANE" Patent Portable Forges possess advantages unobtainable with Forges of any other description. They commend themselves to the world, not only as being complete and portable Smithies and mine and ship ventilators of the highest practical value, but also for the extreme ease with which they are worked, the simplicity and compactness of their construction, and the steady continuous blast, which speedily creates an unusually high degree of heat. The "Hurricane" Portable Forges are made in nine distinct sizes, embrace attachments which form a complete smithy, and are suitable for all purposes in all climates.

The Rivetter's Hearth is readily connected to the nozzle of the forge by means of a flexible tube, and can be used in any awkward position for keeping rivets hot and close to the work. The Brazier's Hearth is similarly worked, but is constructed with a nozzle on opposite sides for producing heat equally on both sides of the work, and is particularly adapted for brazing band saws, &c. Hand Blowers for all ventilating purposes, and for fixed blacksmiths' hearths, are made on a new principle.

The Lever Handle can be used at any angle, or taken off altogether, and the Treadle used instead. There is a Recovering Spring to raise the Handle or Treadle. This arrangement secures all the easy motion of the old-fashioned bellows, is worked with much less effort than the Rotary Hand Wheel, and there are no Leather Bands to be burnt, no Cranks, and consequently no "Dead Centres." Three larger sizes than those given below are kept in stock.

A 1-INCH BAR OF IRON CAN BE RAISED TO A WELDING HEAT IN TWO-AND-A-HALF MINUTES.

		PRICES.	
No. 0.—THE AMATEURS', JEWELLERS', OR DENTISTS' FORGE AND WORKSHOP, 3 ft. by 1 ft. 6 in., and 2 ft. 8 in. high, fitted as a complete Smithy, including Forge, 6-in. patent Fan Blast, Hearth, Parallel, Vice with Anvil, Emery Wheel, Chuck, 2 Drills, a Cutter, Polishing Wheel, Crucible and Tongs, Ladle, Spanners, Drawers, Treadle and Flexible Band, Automatic Clutch, &c., &c. Weight, 84 lbs. Muffler, for conveying the smoke to chimney, 15s. extra.			£8 8s. 0d.
No. 1.—FORGE, HEARTH (lined with fire-brick), and PAN 18 in. square, 2 ft. 7 in. high. Weight 132 lbs., with 8-in. patent Fan Blast, Spanners, and Emery Tool Grinder, complete, on standard.			£5 15s. 0d.
No. 2.—DITTO DITTO. Weight, 156 lbs. Fitted with 2 1/4-in. Vice with Anvil, 4-in. Emery Wheel or Grindstone, Chuck, Cutter, and two Drills, a Buffing Wheel or Polisher, Spanner, Tool Chest, Lock and Key, &c. Lever and Treadle. Muffler, 15s. extra.			£7 7s. 0d.
No. 3.—FORGE AND HEARTH, 26 in. by 34 in. Weight, 160 lbs.: 10-in. patent Fan Blast, Spanners, and 5-in. Emery Wheel, complete on frame with four legs and two travelling wheels. Lever and Treadle.			£8 8s. 0d.
No. 4.—DITTO DITTO. Weight, 184 lbs. Fitted with Two Travelling Wheels, 5-in. Circular Saw and Bench, and all the attachments of No. 2 Forge, but increased in suitable proportions. Hood, 21s. extra. Muffler, 35s. extra.			£10 10s. 0d.
No. 5.—FORGE AND HEARTH, 30 in. by 42 in. Weight, 250 lbs. With 12-in. patent Fan Blast, Spanners, and 6-in. Emery Wheel, complete on frame with four legs. Fitted with Lever Treadle, Two Travelling Wheels, and Fast and Loose Pulleys for power.			£12 12s. 0d.
No. 6.—DITTO DITTO. Weight, 280 lbs. Fitted with all the attachments of Nos. 2 and 4 Forges, but proportionately increased in size. Hood, 30s. extra. Muffler, 42s. extra.			£15 15s. 0d.

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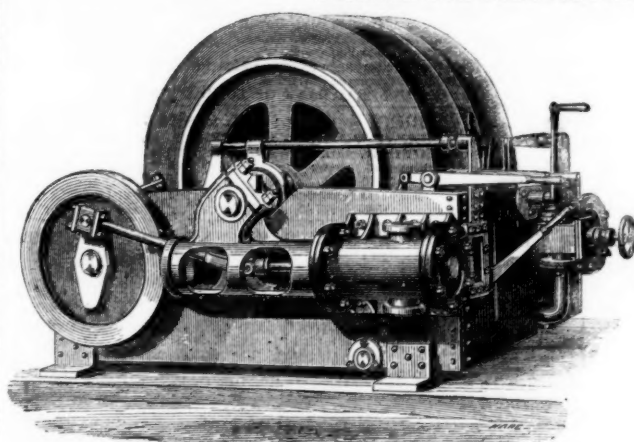
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## ABRIDGED PROSPECTUS.

This company is formed for the purpose of acquiring the freehold and leasehold interests and mining rights in the estates of Balcarres, Henrietta, and Palmerston, in the South-East Wynaad District, Madras, containing, according to the Government maps, 1198 acres; and for the purpose of developing the resources of the estates.

It will be seen from the geological map of the South-East Wynaad appended to Mr. William King's first official Report to the Indian Government made in May, 1875, that the property to be purchased by this company is situated in that part of the district which is indicated as being most highly auriferous, there being several auriferous quartz reefs (shown on the map) running across the property from north to south. The estates are specifically named on the Government plan of the district. It may be mentioned that in Mr. King's first report the Balcarres estate and reef are by name referred to as follows:—"Dunbar and Balcarres Reefs. On the northern side of the deep trench leading to the low country by Carambat there is a good outcrop of a reef 4 feet thick in the Dunbar estate. Mr. Powell, the superintendent of this garden, when down showing me the reef, was successful in knocking out pieces of quartz in which small streaks of gold were visible. The lode is traceable northwards into the Balcarres estate, where there is a great show of white quartz on the eastern slope of one of the low hills. This part of the reef has been very extensively riddled by the old miners."

The reference thus made to the existence and extent of old workings may be taken as a sure indication of the highly auriferous character of the reef alluded to; and it need hardly be observed that if the ancient miners, with the limited means at their disposal, found the working remunerative, it may be expected that large returns will be yielded by the application of proper machinery and engineering skill.

It may be added that the estates to be acquired by the company are in the immediate vicinity of those of the "Indian Glenrock Gold Mining Company" and "The South Indian Gold Mining Company," for the development of which capital has already been subscribed by the public. The shares of these two companies are already quoted at a high premium on the market.

Specimens of quartz have been taken from the reefs on the Balcarres, Henrietta, and Palmerston estates respectively, and assays made of the same by Messrs. Johnson, Matthey and Co. and Mr. Oliver Pegler show an average of upwards of 12 dwts. of gold to the ton of quartz apart from the pellet in one of the samples from Balcarres which showed no less than 7 ozs. 11 dwts. 13 grs. per ton, and upon which the assayer notes: "A small pellet of gold enclosed in

a fragment accounted for its high yield; apart from this visible gold the stone gave 1 oz. 3 dwts. 12 grs."

The property is bounded partly on its east and west sides by streams of water, and it is stated in the description of the property that the uncleared jungle abounds in timber.

Mr. Brough Smyth's Official Report to the Indian Government made in October, 1879, describes the machinery and appliances for treating auriferous quartz. The crushing machine consists of a series of stamp-heads, and each stamper, if of proper weight and construction, should when properly fed crush at least 24 tons per diem of 24 hours as a constant average. It also appears from this report that the actual cost of raising and crushing quartz in South-East Wynaad paid by the Alpha Company was 10s. 10d. per ton.

On this basis the profit, should the yield of gold be 5 dwts. only per ton, is shown by the report to be 6s. 8d. per ton. Upon these figures, assuming that 150 stamp-heads were erected by the company, and that these worked 250 days (of 24 hours) in the year, the profit would be £28,000 per annum, or about 15½ per cent. on the capital of the company.

This company is promoted by the vendors of the estates, by whom the consideration to be paid for them has been fixed at £50,000 in cash and 50,000 fully paid-up shares of the company. The only expenses falling on the company until the allotment of shares will be the ordinary expenses prior to and of and incidental to the formation of the company, and these will not exceed £700. The vendors engage to retain all their shares allotted as purchase-money for six months from the date of registration of the company, and these shares while held by the vendors are only to carry half the voting power of ordinary shares in the company.

Between 200 and 300 acres of the property are under cultivation as coffee estates, and the buildings, stock, and growing crops are included in the sale, and vacant possession will be given on completion.

The Contract of Purchase, the Memorandum and Articles of Association, translation of the leases, and the Government maps and schedules of the estates are open for inspection at the temporary offices of the company.

Prospectuses and forms of application for shares can be obtained at the temporary offices of the company, or from the brokers, bankers, or solicitors, together with copies of the geological map already referred to.

Should no allotment be made the amount paid on application will be returned in full.—London, April 15th, 1880.

## Registration of New Companies.

The following joint-stock companies have been duly registered:—

**THE BULTFOUNTAIN HOMESTEAD COMPANY (Limited).**—Capital 35,000*l.*, in shares of 10*l.*. To purchase or otherwise acquire 44 claims of 30 feet square, each within the Bultfontein diggings, Griqualand West, South Africa, and to dig and search for diamonds and other precious stones. The subscribers (who take one share each) are—C. Posno, 19, Finsbury-circus; C. Davis, Dalston; G. Brown, Brentwood; C. N. Sturt, 61, St. James's-street; S. Ochs, 83, Hatton-garden; J. C. Martin, Narborough Hall; W. H. Dale, Stoke Newington.

**THE NEW HOLMBUSH MINING COMPANY (Limited).**—Capital 40,000*l.*, in shares of 4*l.*. To adopt and carry into effect a contract for the purchase of a certain arsenic and copper mining property in the parish of Stoke Climsland, near Callington, East Cornwall. To mine for, win, work, quarry, raise, carry, and prepare for sale and deal in any metal or metallic ore, ironstone, or other minerals, stone, fire-clay, or other substances obtainable from the mines of the company. The subscribers are—D. Sykes, Marsh, Esquire, 100; E. Anchew, Upper Denmark-hill, solicitor, 100; J. Cooper, 3, Coleman-street Buildings, accountant, 25; G. Butler, 8, Old Jewry, accountant, 1; G. Whiffen, 8, Old Jewry, accountant, 100; E. Smith, Abchurch-chambers, solicitor, 25; W. J. Smith, Lee, gentleman, 1. The number of directors not to be less than three or more than five. Qualification 100 shares.

**NILGHERY AND SOUTH INDIAN GOLD MINING SYNDICATE (Limited).**—Capital 7500*l.*, in shares of 1*l.*. To acquire by purchase or otherwise for mining purposes any lands, mines, minerals, and mining rights, or other properties in Southern India, and particularly a portion of a tract of 18 miles in the province of Travancore, southward of the Wynaad district. To carry on the business of a gold mining company in all its branches, and for that purpose to erect all suitable plant, machinery, &c. The subscribers (who take one share

each) are—A. J. Poulton, Dover, secretary to a public company; F. Regent-street, accountant; G. Davison, 57, Conduit-street, clerk; W. Meikleham, 235, Eversley-road, no occupation; E. A. Dando, 86, Lichfield, Lee, gentleman; J. J. A. Moss, 90, Guilford-street, no occupation; W. E. Burk, Clapham, law student. The subscribers to appoint the first directors, their remuneration being determined in general meeting of the shareholders.

**STANLAKE, LEE, AND COMPANY (Limited).**—Capital 50,000*l.*, in shares of 20*l.*. To carry on the business of a sugar manufacturing and land company in the Fiji Islands. The subscribers are—S. Lee, Clifton, 250; J. F. Lucas, Bristol, 200; W. Smith, Bristol, 200; A. Gooding, Bridgwater, 100; E. J. Locke, Glastonbury, 100; E. S. Locke, Glastonbury, 100; E. R. Lee, Clifton, 100.

**HANTS AND BERKS FARMERS' CO-OPERATION STEAM PLOUGHING AND CULTIVATING COMPANY (Limited).**—Capital 20,000*l.*, in shares of 5*l.*. To continue the business at Basingstoke of an engineer and iron and brass founder. The subscribers (who take one share each) are—J. C. P. Curtis, Basingstoke; J. Poulter, Basingstoke; G. E. Harris, Basingstoke; T. J. Temple, Basingstoke; J. Bird, Basingstoke; J. W. Smith, Basingstoke; J. E. Stephens, Basingstoke.

**THE NORTH-WEST PROVINCES AND OUDE ICE COMPANY (Limited).**—Capital 15,000*l.*, in shares of 5*l.*. To manufacture and sell ice throughout the North-West Provinces of India and Oude. The subscribers (who take one share each) are—E. Clutterbuck, Horsham; H. J. Hawes, 118, Jermyn-street; Matthew Kane, Kingston Hill; E. Wood, 45, Onslow Gardens; W. B. Dick, 101, Leadenhall-street; R. Tome, 8, Ormand-terrace; J. M. Burnup, Blackheath.

**LONDON AND PROVINCIAL REFRIGERATING AND WAREHOUSING COMPANY (Limited).**—Capital 100,000*l.*, in shares of 2*l.*. To carry on a refrigerating and ice manufacturing business. The subscribers (who take 50 shares each) are—H. J. Stevenson, 55, Victoria-street; W. T. Huxley, Brixton; J. B. Rogers, St. Clement's House; W. Wielden, Camberwell; M. Gregory, 2, Melrose Gardens; T. G. Bailey, 4, Old Palace Yard; F. Wegg, West Ham.

**THE WHITEHAVEN SHIPBUILDING COMPANY (Limited).**—Capital 80,000*l.*, in shares of 20*l.*. Taking over and carrying on the business of the Whitehaven Shipbuilding Company (Limited), now in liquidation. The subscribers (who take five shares each) are—J. Jacques, Whitehaven; H. M. Macquin, Distington; P. C. Bunker, Whitehaven; W. Burnycat, Whitehaven; J. Jackson, Whitehaven; H. A. Fletcher, Whitehaven; J. Nicholson, Whitehaven.

**THE NEW VRONHEULOG SLATE COMPANY (Limited).**—Capital 20,000*l.*, in shares of 20*l.*. To carry on the trades of miners and quarriers, boring for and raising of slates, flags, mines, and minerals in lands situate in Carnarvonshire or elsewhere, and manufacturing, making, selling, and shipping same. The construction of any necessary premises, houses, railways, tramways, &c. The subscribers are—J. L. Aspinall, 62, Porchester-terrace, 510; C. O. Aspinall, 92, Porchester-terrace, 250; C. F. E. Willett, Tottenham, 125; S. John, Peckham, 40; J. H. Aspinall, Aldershot, 25; C. M. L. Aspinall, 62, Porchester-terrace, 25; L. E. Aspinall, 62, Porchester-terrace, 25.

**TOM MILES RICHARDS AND COMPANY (Limited).**—Capital 20,000*l.*, in shares of 100*l.*. To purchase or otherwise acquire coal and tin works, coal and iron mines, mining ground or minerals, and particularly certain lands, buildings, machinery, plant, goodwill, and effects, situate in the parish of Llantwitjuxta, Neath, Glamorgan, known as the Clyne Tinplate Works, and carrying on the trades of miners, smelters, engineers, &c. The subscribers are—T. M. Richards, Neath, tinplate manufacturer, 5; J. Rees, Neath, mechanic, 5; T. Rees, Neath, fitter, 2; W. Getting, Neath, insurance agent, 1; T. H. Green, Meraven, turner, 2; T. Morgan, Swansea, 1; B. Rees, Britonferry, carpenter, 1.

**THE FAWLER COAL AND IRON COMPANY (Limited).**—Capital 20,000*l.*, in shares of 10*l.*. To acquire by purchase or otherwise certain mines of coal, iron ore, and all other metallic minerals or ores and quarries of stone and beds of clay known by the name of the Fowler Mines, in Oxfordshire, which were devised by the Duke of Marlborough to F. J. Bolton, of 19, Grosvenor Gardens, together with all the plant, workshops, buildings, machinery, &c., connected therewith. To carry on the business of miners, smelters, manufacturers, and merchants, and dealers in the products of such or any other mines and mineral properties. The subscribers are—F. J. Bolton, 19, Grosvenor Gardens, Lieutenant-Colonel, 494; A. F. Braham, Winchester, Major, 1; G. W. Brogden, Northampton, engineer, 1; R. Fowler, 3, Victoria-street, solicitor, 1; P. A. Scratchley, 4, Broad Sanctuary, barrister, 1; H. Schmidt, 4, Broad Sanctuary, mineowner, 1; J. K. Gulland, 6A, Victoria-street (no full details given).

**THE SYDNEY AND LORRISBURG COAL AND RAILWAY COMPANY (Limited).**—Capital 314,770*l.*, in shares of 10*l.*. To adopt and carry out a contract for the purchase of mining and other property lately belonging to the Cape Breton Company (Limited). To mine for, quarry, work, and prepare for sale and deal in coal, ironstone, and other minerals, and generally to carry on the business of coal-owners, ironmasters, founders, quartermen, &c., in all its branches. The subscribers (who take one share each) are C. Schiff, 43, Lothbury, merchant; C. C. Boulby, 43, Lothbury, clerk; R. J. Hood, Lee, C.E.; J. Paterson, 35, Walbrook, accountant; M. Thompson, 7, Cophall-court, clerk; B. Costin, 7, Cophall-court, clerk; C. Underdown, 3, King's Bench Walk, barrister. The directors to be appointed by the subscribers, the number not exceeding six and being less than three; qualification fixed at 50 shares.

**POWELL AND COMPANY (Limited).**—Capital 30,000*l.*, in shares of 10*l.*. To acquire and continue a horticultural sundries merchants and manufacturing business at 18, Finsbury-square. The subscribers (who take one share each) are—G. C. Fowler, Lewisham; C. H. Thompson, Putney; T. M. Fowler, Brighton; J. Broad, Lewes; C. G. Mumby, 5, Great Queen-street; J. M. Gurney, Maidenhead; C. Wheatley, Huddersfield.

**THE HULL BANKING COMPANY** is now incorporated under the Limited Liability Acts of 1862 and 1879.

## PROVINCIAL STOCK AND SHARE MARKETS.

**CORNISH MINE SHARE MARKET.**—Mr. S. J. DAVEY, mine shareholder, Truro (April 15), writes:—Our market has been dull during the week, with prices declining. The tin standards fell 8s. per cwt. on Monday, and it is reported 3s. again on Wednesday. Carn Brea shares fell 50s., Cook's Kitchen 20s., Dolcoath 50s., Tincroft 20s., West Tolgus 50s., and Wheal Pevor 30s. The following are today's prices:—Blue Hills, 3½ to 4; Carn Brea, 82½ to 85; Cook's Kitchen, 6½ to 6¾; Dolcoath, 53½ to 54½; East Pool, 33½ to 34; Mellanar, 5½ to 5¾; New Cook's Kitchen, 6½ to 7; North Bury, 1 to 1¼; Penhall, 2½ to 2¾; South Condurrow, 11 to 11½; South Crofty, 12½ to 13; South Frances, 17½ to 17¾; Tincroft, 18½ to 19; West Basset, 17½ to 18; West Frances, 15½ to 16½; West Seton, 25 to 27; West Tolgus, 58 to 60; West Pevor, 7 to 8; West Polidice, 2 to 2½; Wheal Agar, 6½ to 7; Wheal Basset, 4 to 4½; Wheal Grenville, 8½ to 9; Wheal Jane, 4 to 4½; Wheal Kitty, 5½ to 5¾; Wheal Pevor, 27 to 28; Wheal Prussia, 1½ to 1¾; Wheal Uny, 4 to 4½.

—Mr. JOHN CARTER, mine shareholder, Camborne (April 15), writes:—The share market has been weaker, and prices continue to decline. The tin standards were reduced 3s. on the 10th inst., and smelters are reported to be paying 3s. lower again to-day. Closing prices annexed:—Blue Hills, 3½ to 4½; Carn Brea, 82 to 84; Cook's Kitchen, 6½ to 6¾; Dolcoath, 53½ to 55½; East Pool, 33½ to 34; Mellanar, 5½ to 5¾; New Cook's Kitchen, 6½ to 7; North Bury, 1 to 1¼; Penhall, 2½ to 3; Pendarvis United, 8 to 9; Peden-andrea, 15 to 17 6d.; St. Aubyn United, 10 to 12; South Condurrow, 11 to 11½; South Crofty, 12½ to 13; South Frances, 17½ to 17¾; West Basset, 17½ to 18; West Frances, 15½ to 16; West Pevor, 7½ to 7¾; West Seton, 24 to 25; West Tolgus, 57½ to 60; West Polidice, 2½ to 2¾; Wheal Agar, 6½ to 7; Wheal Basset, 4 to 4½; Wheal Grenville, 8½ to 9; Wheal Jane, 4 to 4½; Wheal Kitty, 5½ to 5¾; Wheal Pevor, 28 to 29; Wheal Uny, 4 to 4½.

—Mr. J. H. REYNOLDS, stock and share broker, Redruth (April 15), writes:—The share market has been very dull and depressed during the week, prices generally closing lower, as will be seen by subjoined quotations:—Blue Hills, 4 to 4½; Carn Brea, 85 to 87; Cook's Kitchen, 6½ to 6¾; Dolcoath, 54 to 55; East Caradon, 2½ to 3; East Pool, 33½ to 34½; Herodsfot, 4½ to 4¾; Marke Valley, 1½ to 2; Mellanar, 5½ to 6; New Cook's Kitchen, 6½ to 7; North Bury, 1½ to 1¾; North Herodsfot, ¾ to ¾; North Penstruth, 1½ to 1¾; Peden-andrea, ¾ to ¾; Phoenix, 5 to 5½; South Caradon, 130 to 140; South Condurrow, 11½ to 11¾; South Crofty, 12½ to 13; South Frances, 17½ to 17¾; St. Aubyn United, 12 to 14; Tincroft, 18½ to 19½; West Basset, 18 to 18½; West Frances, 16 to 16½; West Pevor, 7½ to 7¾; West Seton, 23 to 25; West Tolgus, 55 to 60; Wheal Agar, 6½ to 7; Wheal Basset, 4 to 4½; Wheal Crebor, 4½ to 4¾; Wheal Comfort, 4½ to 5; Wheal Grenville, 8½ to 9; Wheal Jane, 4 to 4½; Wheal Kitty (St. Agnes), 5½ to 5¾; Wheal Pevor, 28 to 29; Wheal Uny, 4 to 4½; Wheal Jewell, 1 to 1½; Wheal Prussia, 1½ to 1¾.

—Mr. M. W. BADEX, Liskeard (April 15), writes:—Mining market dull and inactive. The unexpected drop of 3*l.* on the tin standards has had a depressing influence on most shares, which are offering at lower prices. Subjoined are the closing quotations:—Bedford United, ¾ to 1; Carn Brea, 84 to 85; Clitters, 6 to 6½; Cook's Kitchen, 6½ to 6¾; Dolcoath, 57 to 58; Devon Consols, 13½ to 14; East Caradon, 2½ to 3; East Pool, 34 to 35; Glasgow Caradon, 1½ to 1¾; Herodsfot, 4½ to 4¾; Hingston Down, 1½ to 1¾; Marke Valley, 2 to 2½; Phoenix, 5½ to 5¾; Prince of Wales, ¾ to ¾; South Caradon, 130 to 132½; South Condurrow, 11½ to 11¾; South Crofty, 13½ to 14; Tincroft, 18½ to 19; West Frances, 15 to 15½; West Mary Ann, 1½ to 1¾; West Phoenix, 2½ to 2¾; Wheal Agar, 7 to 7½; Wheal Crebor, 4½ to 4¾; Wheal Grenville, 8½ to 9; Wheal Pevor, 28 to 29; Wheal Uny, 4½ to 4¾.

**MANCHESTER.**—Messrs. JOSEPH R. and W. P. BAINES, sharebrokers, Queen's Chambers, Market-street, Manchester (April 15), write:—Except in mineral and manufacturing concerns and railways there is very little movement to notice, and the business reported for the past week is small in amount, though fairly distributed amongst the several classes of securities. Iron and coal concerns are generally easier, but otherwise the market is strong, and tendency to further improvement with, however, no great amount of general activity.

BANKS where altered are for the better, the only instance of decline being ¼ in Bank of Liverpool, whilst National Provincial, New, &c. Manchester and Liverpool District Bank ¾, and Lancashire and Yorkshire ¾ higher. Districts have been done yesterday and to-day at about top figures, and Consolidated have changed hands a few times at 7½; and a solitary transaction is recorded in Manchester and Salford Bank at 15½.

**INSURANCE COMPANIES** have produced a little more business than of late, and prices realised have been fully up to best prices lately ruling, and in some advances are established. In this class, also, the only instance of lower quotation is a decline of ¼ on Royal; on the other hand, Thames and Mersey Marine being quoted ¾, Sea ¾, and London, and Liverpool, and Globe ¾ higher.

**COAL, IRON, &c., AND MINING.**—Some few concerns show better prices; they are as follows:—John Brown's, ½; Earle's Shipbuilding, ¾; and Great Laxey Lead, ¼ higher; but the great majority show adverse movement, some of the alterations being severe. Bolekow, A, 60*l.* paid, are 1½; ditto, A, fully paid, 5; ditto, B, 2½; Nant-y-Glo and Blaina, 3; Silstone and Doldworth, 3; Cannel, 2½; United States Rolling Steel, 1; Ebbw Vale Steel, ¾; Pelsall Coal, 1½; Sheepbridge Coal, ½, and Thariss Sulphur ½ lower. Several others are also quoted fractionally easier. Except in Ebbw Vale, on which several transactions are marked, and also some few on Bolekow, B, the business done has been of a very desultory character and at reduced prices.

**COTTON SPINNING AND MANUFACTURING SHARES** keep fairly steady, but still not much business is in progress. Prices generally are rather higher than a



been the wish of the Chairman for many years, and not only had the annual







## Mining Correspondence.

## BRITISH MINES.

**ARELLY.**—J. Roberts, April 14: In the Valley cross-out there are nice ribs of lead and strong spots of blende, which I consider are very strong indications not only of the lode being near, but that it will be a good lode when intersected. The ground is harder, and rather sparer for driving. The No. 3 cross-out is without any change. The ground is hard and rather close. We have several fathoms yet to drive to cut the lode. At No. 2 the men that were cutting through the hard lode I have now put to stop the roof, where the lode is more productive. I have never seen the stopes look much better than they do now. The stopes on the soft lode are rather poor, owing to the lode being squeezed by a hard "cob" or "crust" between the soft and the hanging-wall. The dressing is going on very regularly, and the machinery is working well.

**BEDFORD UNITED.**—R. Goldworthy, April 14: No lode has been taken down in the 138 or the 115 east since last report. The lode in the winze sinking below the 115 has fallen off a little in value, now worth 9s. per fathom; I hope this will be communicated in a few days with the 127, which will well ventilate the eastern part of the mine, when we purpose to resume driving the 127 east. No other change to notice.

**BELL VES.**—J. Bray, April 12: We have six men driving the cross-out, and they are making very fair progress. There are three boys driving the air machine, so that all possible progress is being made.

**BETTS-Y-COED.**—M. H. Whitford, April 4: The lode in the 30 end, east of the flat-rod shaft, has improved since my last report; now yielding 18 cwt. of lead ore per fathom, and a further improvement is expected, as there is but a short distance to drive before entering into the course of ore down in the bottom of the level above. The stop in the back of the 30, west of shaft, will yield 16 cwt. of lead ore per fathom. No change in the stopes (east of shaft) in the 20 ft. level worthy of remark. The deep end, east of engine-shaft, has improved for progress, and the water is flowing freely; lead is 2½ ft. wide, with good stones of lead—here I should remark from what has been seen in the level above a very valuable piece of ore ground stands before us. The various other bargains continue as last reported. We sampled a parcel of lead (30 tons) on the 13th instant, for sale on the 20th.

**BLUE HILLS.**—S. Bennetts, R. Harris, April 10: The lode in the 42 east end is 8 in. wide, and containing some good tin stuff. In the west end at this level the lode is 3 ft. wide, and worth 7s. to 8s. per fm. The 30 east end is worth 6s. per fathom. The rise above this level is worth 15s. per fm. In the 20 east end the lode is 1½ ft. wide, and producing saving work.

**BODIDRIS.**—H. Hotchkiss, April 15: Meadow shaft is now down 3 fms. 4 ft. 6 in. below the 90, and I am pleased to say that we have now reached the white carboniferous limestone, or bottom bearing measures, so we shall be well into these measures when we intersect the lode at the depth of 110 yards, and there is every probability of our finding it productive of lead ore. The sinking progresses satisfactorily now that we have the large fan at work, which supplies plenty of air. The winze sinking upon the course of the lode below the 17 is now holed to the 60, and the men are squaring down the same, which will be completed this week, when we shall be able to resume the driving of the 17 east upon the course of ore which we were obliged to suspend during the sinking of the winze. We shall also now be able to stop to advantage the back and bottom of the 17, which, it will be remembered, has been driven through a good lode of lead and blende. I anticipate a further improvement in the lode as we extend the level eastwards. These operations will turn out a good quantity of lead ore, and which will, I hope, add largely to our already respectable pile of clean lead for market. The 60 driving east is improving, and now contains some beautiful strings of solid lead of ½ in. thick; this end is in advance of the winze above referred to about 3 fms., and is being driven upon the hanging side of the lode, whereas the winze came down upon the footwall, proving the lode at this point to be nearly 20 ft. wide. From what we have seen in the upper level, I am of opinion that in a few fathoms further east we shall have an important appearance in this drive. Upon the whole, I consider the future prospect of the mine most encouraging, and feel, now that we have reached the bottom bearing measures, we shall find the lode even more productive than in the upper.

**BWLCH UNITED.**—Nicholas Bray, April 14: The engine-shaft is now down fully 5 fms. below the 100, and tolerably good progress is being made. The lode in the rise in the back of the 70 maintains its size, and is valued at 11s. per fm. The stop in the back of the 70 is without change, and continues to yield 12 cwt. lead ore per fathom. No lode has been taken down in the 100 driving east since my report of the 3rd inst., and the same remark applies to the 80; particulars of each point as to value, &c., shall follow in a few days. Some of the lighter parts of the 40-ft. crusher wheel have been brought on the mine, and the axle and centres I am expecting in a day or two, and arrangements are being made for erecting the same.

**CAMBRIAN.**—Thomas Glanville, April 10: ESQAIR FRATHE: Eastern Shaft: By Saturday next the shaft will be sunk 20 yards below the 85 yard levels. We shall then commence to cut pit, drive levels, and prepare to continue sinking with all the usual dispatch. The lode in the 85 yard level will produce 3 tons of copper ore per yard. The stopes above the 85 and 70 yard levels will yield 2 tons of copper ore per yard respectively. No alteration has taken place in the 85 and 46 yard levels since my last report. By Saturday next we shall have another 50 tons of ore at Swansea. The last lot of ore sent to Swansea will be sampled on April 20.

**CARNARVON COPPER.**—John Roberts, April 14: At Garmon's the water is forked 1 fm. below the 36, and the pumps are working very well. At the new shaft we have restored the life, and the pumps will get the next lift below to work, when we shall double the speed. In the new trial on the western ground we have had some nice lumps of copper since last report. The sulphur is stronger and has copper throughout it.

**CLEMENTINA.**—John Roberts, William Sandoe, April 14: The rise at the 34, north of engine-shaft, we have suspended for the time being, and put the men to stop the rise from the end; by so doing we shall improve the ventilation, as well as be getting more lead. The sump at the 15 is without much change; there is a good lode of ore in the end, and we believe to be the best lode of the lead in the rise at the 34, and if so this will make a good piece of ground, as there is yet 8 fms. to communicate. We have no change at the roadside shaft since last week; it appears to us now that we have a good piece of lode to stop to away from both ends of the shaft.

**COMBARTIN.**—John Comer, April 15: The 17 is again dry. We resumed the driving of both ends on Friday last. The lode in the south-east end is large; it extends over the whole width of the level, consisting of quartz, killas, white iron, and capel, with a little saving work for lead. In the north-west end the lode is also large, and of much the same appearance as the lode in the south-east end, but not producing quite so much lead. The lode in the winze sinking below the adit level is not looking quite so well to-day as when last reported, it being a little disordered by a small slide; but as the lode is subject to changes from these small crossings I think it will soon improve again.

**CWM DWYFOR (Brynarian).**—J. Davies, April 15: We have driven the 20 ft. level 3 fms.; the lode has changed considerably in its character in the last fathom driven; we got fine specimens of ore up to-day, and it is looking promising for improvement. I hope by the time the next 3 fms. are driven to be able to report that we have cut something really good. Everything is working well.

**DENBIGHSHIRE CONSOLIDATED.**—R. Prince, A. Francis, April 15: Raising splendid lead from the 68; one great stone of metal we tried to extract from the forebreast without breaking, which we did not succeed in doing; the first portion of it weighed 358 lbs.; the second portion between 400 and 500 lbs.; so together this splendid rock of ore weighed ½ ton. We shall have the best monthly sale of ore within the next fortnight that we have ever had since the mine was started. No other change to notice, but we are making considerable progress. **D'ERESBY CONSOLS.**—J. Roberts, W. Sandoe, April 14: The Gorse heading is a very kindly lode, 3 ft. wide, containing strong spots of lead and blende, very wet; set to four men, at 6s. 6s. per fathom. The Red lode is small, and the ground very close; set to two men, at 7s. 10s. per fathom. The Cobble lode is still pinched rather small, but being wet we are of opinion that it will shortly open wider. We have not yet driven to the point where they had the main body of lead at surface, which may account for the lode being what it is in the present end; set to two men, at 10s. per fathom.

**D'ERESBY MOUNTAIN.**—J. Roberts, Wm. Sandoe, April 14: Every point in operation is very much the same as in the last time past. The sump and stop in the sump at No. 5 is now getting rather deep for winding so much stuff, so that it is impossible to turn it to the same account that we shall be able to do when we get down to the next level; as we have said many times, our returns will be in proportion to the amount of stuff we can bring to surface. The Gorse shaft is down from 9 to 10 fms.; the face of the lode where cut into to make room in the shaft is a beautiful lime-spar, containing strong spots of lead, and from every indication we can see we have not much doubt that the lode will prove productive. This shaft is to the sump.

**D'ERESBY.**—John Michell, April 15: The following are a few particulars on these mines:—Jeffrey's Shaft: Middle Vein: The 95 east continues to yield 13 cwt. of ore per cubic fathom, or about 1 ton 7 cwt. for whole width. The No. 1 stop in the back yields 14 cwt.; the No. 2, 15 cwt. The flats on the north side of the vein yield 16 cwt. of ore per cubic fathom. The stopes over the 93, west of shaft, are worth 12, 10, 16, 13, and 13 cwt. of ore per fathom respectively; average width of vein 4 ft. 6 in. The No. 7, east upon this vein, has further improved, and at present worth 14 cwt. of ore per fathom.—West-garth's Shaft: Middle Vein: The several stopes in this section of the mine yield fairly; respective values 13, 14, 12, 14, 20, 20, and 25 cwt. of ore per fathom; average width of vein about 5 ft. The cross-out at this level towards the north vein continues to go at a good pace—a trifle under 3 fms. a week. In a week or 10 days this cross-out should cut what up till recently was supposed in the deep measures to be the north vein. It is likely, however, the north vein, owing to the rapid underlay in the beds of shale, will be proved to be further north than West-garth's than was till lately supposed. The rise in the back of the 74 is now up 6 ft. The men have put a few shots or holes into the side of the rise with a view of partly relieving it. It shows nice pieces of lead ore, blende, kindly spar, and sandstone, but until the vein is thoroughly laid open we cannot pretend to speak to its value. The indications are favourable. We are pushing everything as fast as possible.

**DEVON COPPER AND BLENDE.**—W. Skewis, April 15: The engine-shaft is cleared to the arch turned over to secure same, and a hole made through it, which has let down air to assist in clearing deep adit. The arch will not be removed until the collar of the shaft is properly timbered up, which we shall do as soon as the adit is cleared, which is taking rather longer than expected, owing to there being more stuff than I thought we should have met with. I hope to be able to give a fuller report next week. It is expected that in the course of a week or so operations will be commenced for the erection of an engine.

**DUBBY BYKE.**—W. Vipond, April 10: The men continue busy with cutting out for the wheel-pit and quarrying stones for building the same. I have been levelling the race to bring on the water, and some of the men will begin with the cutting of this at once.

**EAST ROMAN GRAVELS.**—Arthur Waters, April 15: The 97 is driven about 7 fms. south of shaft; the lode in the present end is 3 ft. wide, composed of good-looking carbonate of lime and stones of lead ore, not to value. The 35 south in a lode 3 ft. wide, worth about 2½ tons per fathom. The winze in the 75 fm. level going down at a point 75 fms. from shaft, about 5½ fms. in front of the present 85 end, is sunk 2½ fms., and worth for the part of the lode being carried—the hanging-wall part—1 ton per fathom. The main part of the lode is still standing on the east side of the winze, worth 2 tons per fathom. The tribute

pitch is yielding ore in quantities equal to recent valuations. We shall sample 30 tons of lead ore on Thursday next.

**EAST VAN.**—W. H. Williams, April 15: We are pushing forward the eastern pit as rapidly as possible, and I am glad to say that we are daily cutting spots of lead and copper in the ground, but we have not yet reached the north lode which we are in search of.

**FORTESCUE (Stannary).**—J. H. James, H. B. Harris, April 13: The engine-house and all out buildings are nearly completed, and the engine and stamps on the ground. The engine-shaft has been sunk and secured a further 2 fms., and the lode is as rich as ever. We have nothing further to report. We have plenty of rich work ready for the stamps when erected.

**GAWTON COPPER.**—George Rowe, George Rowe, jun., April 10: The lode in the 117 east is showing a kindly appearance, being chiefly sulphur and arsenical mud, mixed with good quality copper ore. The lode in the 105 east is 6 ft. wide, composed of capel, mud, and ore, worth 4 tons per fathom. The lode in the stop in the bottom of the 105 east is worth 12s. per fathom. No. 2 stop in the bottom of the same level is yielding mud and ore to the value of 10s. per fathom. The lode in the 95, west of cross-out, is 16 ft. wide, principally capel, mud, mixed with ore, yielding 6 tons per fathom. The lode in the stopes in the back of the 95 east is 7 ft. wide, yielding 10 tons of arsenical mud and ore per fathom.

**GLASGOW CARADON CONSOLS.**—W. Taylor, W. J. Taylor, April 13: We have finished cutting in the 102, and are now sinking down the accumulated stuff in the level, and shall at once resume driving on the new south lode, and also push on sinking the shaft below this level. The 90 west, on north lode, is about the same value—6s. to 8s. per fathom. The 90 east is producing good stones of ore, and we hope will soon improve. The 90 east, on the south lode, is worth 5s. per fathom; this holed to the winze from the midway, opening out more ground for stoping. We purpose sinking in the bottom of this level to prove the lode below. We have not cut anything further in the cross-out south in this level, but the ground is improving, and we expect we are near the new south lode. We sampled yesterday (computed) 160 tons of copper ore, which will be sold on April 22.

**GLENROY.**—R. Rowe, April 13: The lode is without change in the 108 south. In the same level driving north the lode is still very wide, and getting harder, and now producing some blende, but so much lead as we had recently. I, however, expect this will come in again as we get on northwards. About 20 fms. ahead of the present end a large slide will be met with, and it is in connection with this slide that the rich lode of lead and blende was first found at a shallow level of the mine. We have a large lode in sinking the shaft, and have a little blende in it occasionally.

**GORSBDD AND MERLLYN.**—W. Edwards, April 15: The 70 east we have improved; the lode is 2 ft. wide, worth ½ ton of lead to the yard. We have splendid ground in the sump below the 90, and I believe the mass of spar now in the very bottom is on the top of a good course of ore. The tribute pitches are producing the same quantity of lead as for some time past, and we are busy dressing.

**GREAT HOLWAY.**—W. T. Harris, April 15: Roskell's Engine-Shaft: Fair progress is being made in sinking below the 80 yard level, and by the end of next week we expect to be sufficiently deep for the bearers and cistern. Some nice strings of lead ore are frequently met with in the sinking dipping towards the lode, which may be considered very encouraging.—Garden Shaft: The lode in the bottom of the 55 is producing 1 ton of blende and 5 cwt. of lead ore per fathom. No. 2 in bottom of this level is worth 8 cwt. of lead ore and 15 cwt. of blende per fathom. The lode in back of this level is worth 1 ton of blende ore per fathom.—Office Shaft: The pitch in back of the 60 yard level is producing 1 ton of blende and 5 cwt. of lead ore per fathom.—Level Engine-Shaft: The pitch in the back of the 60 yard level is yielding 2 tons of blende per fathom, and very promising. To-day we have sent out samples for the sale of 30 tons of blende on the 25th inst.

**GREAT RETALLACK.**—John Harris, April 14: The lode in the winze and stop below the 53 fm. level is not so good for blende as when last reported; the greater part of the stop has become poor, and the blende there is in the eastern end, and dipping easterly, and this is short, but we shall follow it a few feet to see if it will improve again, but I have taken six of the men from this stop and placed them in the stop above the level, where we have a lode worth 3 tons of blende per fathom for 3 fms. long, and I am hoping we shall soon get a good pile of blende from this place.

**GREEN HURTH.**—William Vipond, April 9: There is no particular change in the Swan shaft this week, only it is getting more into the haze all over the bottom of the shaft. The south end of this is yielding now 1½ ton of ore per fathom. No. 1 stop is worth about 4 or 5 cwt. of ore per fathom. No. 2 stop is yielding 1½ ton of ore per fathom. There is no ore cut in cross-cutting to the east of the 30, and no signs of the east cheek of the vein yet. A several of the points we are now working are unusually poor all at one time I shall try to place the men differently next week, so as to get more ore than we are getting at present, and not either injure the mine or work it to a disadvantage. My idea is simply to work the best ore we have in the stopes till the Swan shaft is down, and avoid lifting the poorer class of work by hand.

**GRIFFIN.**—C. Kneebone, April 14: The rise in the 15 north-west is in a hard twit of ground, but showing good lead both sides. The stop north above the 10 is worth 12 cwt. of lead ore per fathom. We are rising from the intermediate to the shallow level, as we think we have the main part of the lode to the north-east, which we shall prove by next Saturday. A stop over the adit looks well, and is worth 15 cwt. of lead ore per fathom. We are preparing a stop by the road in shallow working west of the junction, which promises to yield some good ore. All other points without change. The dressing of ores is going on as fast as circumstances will permit.

**GUNNISLAKE (Clitters).**—W. Skewis, J. C. Secombe, April 14: The engine-shaft is sunk about 6 fms. below the 224, in which the lode is worth 10s. per fm. for copper ore. The lode in the 224 east is producing saving work; in the western end it is worth 7s. per fathom. The lode in the 212 east and west has increased in size, and is producing saving work. The lode in the 200 east is worth 10s. to 12s. per fathom, and in the western end 6s. per fathom. The lode in the 183 east is worth 7s. per fathom. The grey and yellow copper ore met with last week in the 188 cross-cut south has been disordered by a branch of the cross-course, and for the moment is of no value for copper ore; this we consider only temporary, and are of opinion that the main part of Creases lode is still full of ore, as well as the lode in the 224 east, which we are now working. We meet with, as well as push on the cross-cut south with every possible dispatch until we intersect it. The cross-cut will then be extended to intersect the Hington and other lodes still a little further south. The lode in the 176 east is worth for copper ore 12s. per fathom, and likely soon to considerably improve judging from the large quantity of ore laid open in the level below east of this level. The stopes and pitches are without alteration since last reported on.

**HINGTON DOWN.**—T. Richards, April 14: The lode in the deep adit level east of the south cross-cut will produce 1 ton of good quality copper ore per fathom, and is promising further improvement. The ground in the rise against the shaft is much the same.

**KILLIFRETH.**—John Michell, April 14: There is no change in the 90 end, east of shaft; the lode is still mixed with elvan. Having divided and cased the shaft to this level we have set the mine to drive west to get through the elvan. We expect to hole the rise in the back of the 80 very shortly, when we shall resume the 80 end east. The lode in the 70 end east is still large and wet, but nothing in it to value. The lode in the winze sinking below the 60 is not quite so good as last reported. We are forcing on the new shaft as fast as we can, but the ground has been more spare for sinking this last month. Having holed the piece of ground at Black Dog we have set the same to stop, from which we expect to increase our returns.

**LADY BERTHA UNITED.**—Thomas Neill, April 16: In the cross-cut adit south the ground is a little improved; the distance driven is 6 fms. 2 ft. A few days more will finish the clearing of the wheel-pit. We have had the shaft, wheel-pit, &c., all properly fenced, so as to prevent any cattle from falling therein. All other matters are being pushed on with all speed.

**LADY ELLA.**—A. Waters, April 15: There is a very promising looking lode in the adit south of the new shaft, 3 ft. wide, composed of good-looking spar gossan and lead ore, but not to value.

**LEAD ERA.**—J. A. Ade, April 14: I have set the work for the month at the following prices:—The adit level to drive north, to four men, at 50s. per yard. The level east, to four men, at 30s. per yard, and the western level in the lead, to four men, at 30s. per yard, the men to pay all cost. Our progress for the last month has been as follows:—The adit level has been extended 18 ft., the eastern level 43 ft. 6 in., and the western level 36 ft. There is no change to notice in the ground.

**LEADHILLS.**—A. Waters, April 15: Brown's Vein: The lode in the tribute pit in the bottom of the 20, south of Glegonor engine-shaft, is worth 17 cwt. of lead ore per fathom; let at 90s. per ton. The pitch in back of Gripp's adit, south of the shaft, is worth 16 cwt. per fathom; let at 95s. per ton. Gripp's adit, going north of this shaft, is, we think, beyond the valley, and now entering the hill ground, where an improvement may be expected; the lode in the forebreast is 4 ft. wide, composed of spar and quartz, but at present without ore to value.—Hopeful Vein: The tribute pitch in back of Gripp's north of shaft, is worth 16 cwt. of lead ore per fathom, 75s. per ton.—East Staygway Vein: Gripp's adit, going south of Miners' cross-cut, is opening out a strong sparry lode, with gossan and stones of lead ore in it of a promising character.—Kathrine Vein: There are two pitches on this vein, in Poulthel and March Bank levels, worth together 31 cwt. of lead ore per fathom; each let at 95s. per ton.—Ralk Vein, Watson's Shaft: The stop in back of the 10, south of Dempster's winze, south of shaft, is worth 2½ tons of lead ore per fathom; we calculate four men to get 20 to 25 tons of lead ore from said stop for April working, at 7s. per fathom and 10s. per ton. Gripp's adit, going south of incline, under Old Ralk Mine workings, in a strong sparry ore lode, opening tribute ground. There are two pitches in back of Gripp's, by six men, at 60s. and 75s. per ton respectively, worth together 2½ tons per fathom.—Jeffrey's Vein: The 10, going north-west from Ralk vein junction, is worth 35 cwt. of lead ore per fathom. Gripp's adit, north-west on said lode, after passing for a long distance through unproductive ground is now into a strong sparry ore lode, worth to-day 25 cwt. of soft rich galena per fathom; the lode is giving out much more water than usual. The stop in back of this level is worth 28 cwt. of lead ore per fathom. The pitch in the said level, by four men, at 90s. per ton, is worth 18 cwt. per fathom. The stop in the 70, north of shaft, is worth 35 cwt. per fathom. The 70, going south of Newbigging's winze, south of shaft, is worth 1½ ton of lead ore per fathom, and improving. The stop in back of this level, south of said winze, is worth 2½ tons per fathom. No. 2 stop south, worth 2 tons per fm., is suspended on account of pressure in the dispatch of stuff at present through Jeffrey's shaft, and which will be explained as I proceed. The pitch in back of the 55 south, by two men, at 70s. per ton, is worth 1 ton per fathom. The pitch in bottom of the 41 south, by two men, at 90s. per ton, is worth 17 cwt. of lead ore per fathom. Miller's sump, below the 20 (in a direct line with Moffatt's winze) is being driven adit to sink down 3 fms. 4 ft., and we are driving north and south from present bottom to prove the lode, and to open out lodgment for the stuff previous to sinking deeper; lode in both ends worth respectively 4½ tons of rich lead ore per fathom. I would say here in parentheses that we are casing and dividing Moffatt's sump from Gripp's to the 20 for a temporary

winding shaft for the dispatch of stuff from all points on the great run of ore here, and so be able to relieve Jeffrey's shaft of the pressure previously mentioned. We shall erect a double winsey at Gripp's, near Moffatt's winze, where we can haul the ore, and tram it to the dressing-floors by horse-power, where we can haul the ore, and tram it to the dressing-floors by horse-power. There is a splendid course of lead ore in the bottom of the level under said rise and stop. The stop in the back of the 20, north of Foley's winze, is worth 3½ tons of lead ore per fathom. The lode standing south of Foley's winze (1½ ft. between it and the rise against Wilson's shaft) for 10 fms. above the 20 average 7 ft. wide, and is worth up and down the end of ground 7 to 8 tons per fathom, and this rich run of ore can be seen between the points in question along the bottom of the 20 also. Until the winsey is at work the said rich stop must be held in reserve. The 10 set this month to go south of Moffatt's to cut up the ground to advantage, and to be able to tackle as many points as possible when Wilson's shaft is down in opening out a lode worth 4 tons per fathom. This section is standing whole to Gripp's adit and from the 10 downwards of course. Wilson's shaft is now 4 fms. 4 ft. below Poulthel adit, and after a blast the stuff from the holes failing at Gripp's, and even at the 20, a proof that the shaft is coming down in the right and back. We shall have to drive a cross-cut from Gripp's east towards the shaft for the discharge of water, if necessary, in the future, and the dressing department is in full swing, and the new machinery at Reid's working well. P. 2 Gripp's adit north-west, on Jeffrey's lode, improved to-day to quite 30 cwt. per fathom.

**LLANDEGLA.**—April 12: The 36 yard level, east of winch shaft, I have re-set for the ensuing month, to drive by four men, at 150s. per fathom; the lode contains a good quantity of limespate, is well defined, and has a kindly appearance for lead ore. The new shaft is down 5 fms. 1 ft. from surface, and is re-set at 180s. per fathom. The dark ground we met with here last week was only about 6 in. thick, and this is a white limestone mixed with chert and laces of spar. April 14: Since my last we have met with spots of lead ore in the 36 east, and I am daily expecting a good discovery here.

**LOMAX (Old Wheel Rose).**—William Argall, April 14: During the past month we have driven 6 fms. in Thompson's lode; the end is getting a little harder. I have let for the month, at 25s. per fathom; lode producing same as reported last week.

**MELLANEAR (Copper).**—John Gilbert, April 14: The lode in the 50, west of Gundry's shaft, driving east on the south-east part, is 14 ft. wide, and yielding 2½ tons of copper ore per fathom, and looking promising for further improvement. The lode in the 60, west of shaft, driving east on the south-east part, is 5 ft. wide, and yielding 4 tons of ore per fathom. The lode in the 70, west of shaft, driving east on the south-east part, is 5 ft. wide, and yielding 2 tons of ore per fathom; a very kindly lode. The lode in the 70, west of shaft, on the main part, is 2½ ft. wide, and yielding ½ ton of ore per fathom, and some stones of lead ore and blende. The lode in the 80, west of shaft, is 4 ft. wide, and yielding 3 tons of ore per fathom. The lode in the 90, west of shaft, is 5 ft. wide, and yielding 1½ ton per fathom, and still looking very promising. There is no change in the 100, west of shaft; the lode is still 3 ft. wide, and yielding 1 ton of ore per fathom. The lode in the 110, west of shaft, is 5 ft. wide, and yielding 2 tons of ore per fathom, but the ground is hard and spare for driving. There is no change in any other part of the mine. We estimate our sampling for Tuesday next to be about 600 tons of copper ore.

**MINERAL CORPORATION OF GREAT BRITAIN.**—W. Bennetts, April 14: HAFNA AND HIGH HAFNA MINES: No. 3 adit: There is no change in No. 1 stop, the men have been engaged clearing ground and making a new skip and grate, so as to pick and select the work before going to the crusher; when this is done we shall have sufficient water for the two crushers all the year round. No. 2 stop in the back of No. 3 adit, west of No. 2 rise, is looking well, worth 12 cwt. of lead and 2 tons of blende per fathom. The men are getting on very well with the burning-house.

**MONA.**—William Hughes, April 15: Things taken generally are proceeding as last reported, but in the 55, I am happy to say, there are improvements which augur well for the future of the mine. The sink at the western end of this level has entered upon a richer channel of ore, the breadth of which we have not yet ascertained, while at the eastern end of the same level the appearance are of such a nature as to lead us to hope for permanently profitable results. The quantity of ore raised this month will exceed my estimate rendered a few days ago. It is already in excess of our reducing powers at the smelting works, but we are hastening as much as possible the erection of another furnace. The tutwork operations are being pushed forward for the purposes explained in my former reports. Every energy is used to open out speedily the points we have in view. I have set a bargain to drive east in the 48, in order to cut in this level the rich deposit of ore now discovered in the 55. We are not quite sure that it is there, but I believe it is, and the trial is well worth the money it will cost. All the tribute pitches look really well. We have ordered a new engine for Cairn shaft, and hope to have it here in a few weeks. We have also bought a portable engine for the purpose of pumping ochres, sawing, and chaffing hay for the horses. I have also bought two fine cart-horses since my last report, and am looking out for three or four more. We are now carrying down 32 tons per day, but this is far below our requirements, the result being that ores and ochres are all stockpiling upon the mine. Our farming operations are duly attended to. We are careful to make the best of the present weather for drying ochres and oxides. The smelting operations proceed with regularity. We have now in stock from 64 to 65 tons of regulus, of from 43 to 50 per cent. produce. We have also a heavy stock of ores and precipitate. Shipments of bluestone and ochre are going on without intermission.

**MONYDD GORDDU.**—J. G. Green, April 14: There is no change to notice in any of the drives since my last, and the stopes are yielding their usual quantities of ore. Dressing and dressing have been carried on with regularity, and I shall sample next week.

**MORFA DU.**—T. Mitchell, April 14: The lode in the bottom end continues to look very well, yielding at present about 6 tons of bluestone ore per fathom. The driving by the white rock shows no particular change since my last report. The ground is still highly mineralised, and rather stiff for driving.

**NANT RHYS.**—W. Michell, April 9: The late flood swept away a quantity of stuff in the brook, but did not show the rock. We are now engaged in breaking up the bed of the brook ready for another flood. At every point opened on the copper lode it looks very promising.

**NEW KITTIV.**—W. Vivian, April 15: I am very pleased to say all work through the mine is progressing very favourably. The clearing of the adit level will be completed in a few days, and the engine-shaft will soon be ready for putting the pitwork.

**NEW WHEEL PEEVOR.**—W. T. White, April 13: We are still sinking on the lode from the surface, as was supposed to be done in my last report, and the lode is producing some fine looking stuff, and judging from its promising appearance it will prove productive in depth. We purpose at once to cross-cut at the adit level, and to drive to cut in the lode in a few fathoms driving. This will then prove it about 25 fms. deep. The prospects of the mine I consider to be very good, being in the midst of a fine run of mineral ground.

**NORTH D'ERESBY MOUNTAIN.**—April 15: No. 1 adit, let to four men, at 95s. per fathom; the part of the lode we are driving on is 4 ft. wide, with good spots of lead, but the main part of the lode is standing to the east of the present drive. In the rise in the back of No. 1 adit, north of cross-cut, the lode is 9 ft. wide, worth 1 ton of lead ore per fathom; this rise is not let at present, but I would strongly recommend putting it through to surface, as it will well ventilate the mine and open up a valuable section of stoping ground. The No. 2 adit end is let to four men, at 80s. per fathom; the lode in the end is at present disordered by a cross-branch. This I look upon as a temporary change. At surface the contractor has completed building the walls of the smith's shop and office, and hopes to get the roof on before this time next week.

**NORTH HERODSFOT.**—T. Trelease, April 15: During the past week the shaftmen have been engaged in cleaning up the footway I referred to in my last; it is now clear down as far as the 14, and there is a strong current of air coming up from that level, proving a communication somewhere below with the shaft. It has also very much improved the mine, and the air is quite a relief. It will be necessary to open this footway as far down as we can for ventilation, and for safety of the men as they get down with the work in the shaft. We broke some very good stones of lead in the footway about 8 fms. from surface, and when we get ladders I purpose putting a couple of men there to try the branch for a few feet. The masons commenced building the engine-house on Tuesday, and will go on with it as fast as it can be done with safety.

**OLD GUNNISLAKE.**—Wm. Skewis, April 15: We have not yet commenced clearing the old adit leading to the engine-shaft, but the northernmost adit in the shaft, which adjoins New Bridge, crossing the main level in which we find large rocks of arsenical mud and some stones of yellow copper ore. We have not yet seen sufficient of the lode to be able to report on its value, but hope to do so next week.

**PANDORA.**—H. Nottingham, April 5: Engine Shaft: As mentioned in my last, we are this week engaged fixing the pitwork for pumping below the 33. We are well on with this work, and hope to see the bottom lift working on Saturday and sinking resumed on Monday. The 23 fm. level, new lode, is withstanding, being still productive, but not rich for lead yet. We are now near the line of the No. 2 course, and so look for some discovery here before long. No. 1 stop, over this level, is yielding 35 cwt. of lead and 1 ton of blende per cubic fathom. No. 2 stop, over the 23 fm. level south, is worth 15 cwt. of lead and 25 cwt. of blende to a fathom. The 33 end, on Goddard's lode, is not looking so promising as last week; the lode is small and irregular. A stop opposite shaft cross-cut is worth 10 cwt. of lead to a fathom. The stop in the 23, south of No. 3 winze, under level, is worth 15 cwt. of lead and 1 ton of blende to a fathom. On the surface dressing and other general work is going on with fair progress, and we have a considerable stock of water in the reservoirs. I hope to begin the new reservoir in a few days.

**PANTY-MWYN.**—Enoch Parry, April 15: Robey's 40-horsepower engine is pumping and winding in fine style, which gives us power to deepen and open out the mine quickly. We shall begin to sink Modlyn shaft below the 15 on Monday next in a soft lode, and should it continue soft we shall soon sink 15 fms. deeper, at which depth we purpose driving levels east and west. We have this day resumed the driving of the 15 east on Modlyn shaft, which is already driven 15 fms. The stopes east of Griffith's shaft below the 15 have











shares subscribed) are inviting subscriptions for 2000 6 per cent. preference shares of 10/., payable by four instalments extending to Oct. 1. The dividend is accumulative, with participation in surplus profits. The issue is made to provide the stabling and equipment for working the valuable extensions to the company's system in course of construction by the Corporation of Sunderland, leased to the company, also for the construction of a short extension authorised to the company, and for general purposes. The extensions comprise 3 miles—2½ miles now being constructed by the Corporation, and of which the company are about to enter in possession as lessees, and ½ mile addition to the company's lines. While constituting important feeders to the company's system, they will further extend it to the populous and flourishing suburban districts, thus producing an addition to the traffic receipts without any proportionate increase in the expenses. The population of Sunderland is 110,000, and the company's lines consist of 7 miles (4 miles of the principal thoroughfares) opened for traffic last year. The proceeds of the present issue of preference shares will be ample to provide for the full equipment of the extensions, the construction of the company's portion of the Southwick line, and the closing of the capital account for the original lines. From the prospectus, which will be found in another column, it will be seen that very satisfactory surplus dividends, apart from the preference dividends, are confidently anticipated.

South Indian Gold, 1½ to 2½; a telegram has been received from Mr. Gifford, the company's manager in India, to the effect that "in making tunnel on the Caroline-Adeline property of the company found reef splendid, thick, strong, and nearly vertical, rich in quality, all in the highest degree."

St. John del Rey, 245 to 255; the produce of gold for March was 25,000 oits., of the value of 9687L, the ley of the ore being 5.2 oits. per ton. A breakage of pumping machinery caused 48 hours delay. At Cuibala 160 tons, yielding 2.4 oits. per ton, were crushed in 15 days. Don Pedro North del Rey, ¼ to 1½; the profit for March was 2500L.

Richmond, 14½ to 15½; the usual telegram from the mines at Eureka, Nevada, states that the week's run was \$60,000. During the week the refinery produced doré bars to the value of \$47,000. They have lost 36 hours through a break down of the engine. Good ore has been struck in the 200 westerly drift. This seems to be a fulfilment of a prediction in the manager's report of March 24, where he says that the 200 main drift has been extended 4 ft. in hard limestone. The winze from the end of the 200 has been sunk to a depth of 28 ft., all the distance in ore, and according to all appearances it promises to open out a large ore body. All the chambers are opening well, and producing the usual quantity of good grade ore. The furnaces are in good working order, and smelting large quantities of ore; the average smelting of Nos. 1 and 2 for the past week was 85 tons per diem. All the machinery, both in mine and smelting works, is in good working order.

Ruby and Dunderberg, 9½ to 9¾; it is reported that the course of ore continues rich both east and west in the 400 and 500 ft. levels, and the explorations for the intersection of other deposits which are believed by Capt. Rickard to exist are being carried out with all possible despatch and energy, that the drivings at so many points are necessarily slow until ventilation can be obtained by means of a winze from the 400 ft. to the 500 ft. level which is now being sunk in rich ore, and that when this is completed, the development of the mine in this part will be very rapid, as the ground is of an easy character.

Colorado United, 2½ to 3½; these shares are reported to keep steady, notwithstanding large bear sales. The accounts received from the mines up to the end of November last are stated to show a steady increase in results, and an early dividend is considered probable. The accounts for November, received on Monday, show a net profit of \$4045.13, after providing for all costs and charges.

Nouveau Monde, 2 to 2½; the recent acquisition of the company includes a 600 stamp mill and machinery nearly new, erected at a cost of 60,000L. Immediate returns may be confidently expected. The profit of the adjoining mine, El Callao, for 1879 is reported to have amounted to 200,000L.

New Kapanga, ¾ to 1; there has been considerable dealing in these shares during the week, and prices show a tendency to improve. Instructions have, it is said, been sent out to recommence work with vigour, and the manager has been provided with ample funds to enable him to do so.

Rio Tinto, Spanish Coupon Bonds, 94 to 96; Mortgage Seven per Cent Bonds, 20½ to 21; shares, 13½ to 13¾; the report and accounts to be presented at the meeting on Friday next have been issued. In accordance with the shareholders' resolution, the balance of 58,479L 8s. 6d., which remained at the debit of revenue, has been transferred to reserve account. The profit on sale of produce, and other items at the credit of revenue account, amount to 459,432L 15s. 10d. After providing for all charges of interest on bond and floating debt, and expenses of administration, the directors have charged to revenue the amount paid for the redemption of mortgage debt by the sinking fund—84,191L—and there remains a net balance of 114,487L 17s. Out of this sum the directors recommend a dividend of 5 per cent., or 10s. per share, which will absorb 112,500L, leaving 1918L 17s. to be carried to the new account. The amount now standing in reserve, applicable to the reduction of capital outlays, is 112,964L 3s. 5d. The produce of the mines was 771,751 tons copper pyrites in 1877, and 871,107 and 906,600 tons in the succeeding years. The quantity of metallic put upon the market by the company was 976 tons in 1878 and 2495 tons in the following year. There was a further increase to 4124 tons in 1879, and last year the quantity was 7104 tons. It is further increasing for 1880. When the improvement in the price of iron took place in the early part of this year the directors offered for sale hematite ore, of which large quantities exist on the company's property. Several trial cargoes, amounting in all to 8869 tons, have been sold, with the option of larger quantities on terms that will be remunerative to the company. The question of utilizing the company's iron ore for the production of pig iron for the apt for cementation purposes has also engaged the attention of the board. But the magnitude of the works already in hand has hitherto stood in the way of putting this much desired scheme into operation.

Missouri Lead, 10 to 11; Capt. Champion reports (March 25) that the "stopping is going forward regularly in the 170 ft. level in the St. Clair Mine, and the ore is being taken down. Work is going on steadily in the Master shaft with the rock-drills, and the machinery is working well. The drift running south is 6 ft. by 5 ft., and is in about 30 ft. We have a branch of the lode on the east side of the drift. The lode at Valley shaft has a tendency to increase in width as it goes down; it is composed of baryte, blende, and lead. I believe this part of the lode will prove very productive. Operations throughout the mines are being pushed forward without interruption." On Wednesday the directors received a telegram—"St. Clair Mine opening very rich; lode in Master shaft improving rapidly. Bald Hill lode increasing."

Hultafall, 2 to 2½; it is reported the navigation is now opened, and the two cargoes of blende which have been frozen up are now at Gothenberg on their way for Antwerp.

The market for hydraulic or gold washing shares has remained steady, and some few transactions have been recorded. It is anticipated that the remainder of the season will be a busy one with the miners, as water is becoming abundant as the frost disappears, while the quantity of snow on the mountains gives promise of a long continuance of water. Birdseye Creek, ¾ to 1; a telegram to hand on Monday announces the March clean up \$6750 gross, \$2000 profit and remittance. Blue Tent, 2 to 2½; the frost was just beginning to disappear at last advices, and the agent was daily expecting the water through the ditch, which had become partially blocked with snow. Placerville, 2½ to 2¾; the mine is looking well and opening up good ore.

In Lead Mine shares there has been but little doing, but quotations remain without material alteration. Van, 18 to 19; there is no particular change reported. The cross-cut towards the north lode is in 14 fms., and the forebreast is showing some nice spots of lead and copper. Mona, 13 to 15; the 55 end at Sydney's shaft has further improved, and more ore is being raised than the present reducing power at the smelting works can deal with, and another furnace is being put up. The new engine for Cairn shaft is in hand, and its erection will be pushed on with all possible speed. All other matters are progressing as usual.

Gwern-y-mynydd, 5 to 5½; both the upper and lower flats are developing rich courses of ore. Frongoch, 4½ to 5½; 100 tons of blende were sold yesterday at 3L 10s. per ton. A further parcel is being got ready for sale, and also some of lead. Accounts as to the mine itself continue to be cheering in every particular, and prospects, on the whole, were never better. Grogynion, 3½ to 3¾; the lodes are not quite so productive as for some time past, but it is stated to be only a temporary falling off, and such as has often occurred before. Prospects of further rich discoveries in the deepest workings are considered excellent.

Ystwith, 1½ to 1¾; the prospects of this mine are stated to be greatly improved by the new discoveries made since the restarting of the works a few weeks back, and a considerable enquiry exists for the shares at the enhanced quotation. The new shaft has already intersected some capital ore ground, and at every fathom sunk the probabilities of making further astonishing discoveries become more strengthened. The lode in the adjoining mine has returned many thousands of tons of lead at a nominal outlay, and the prospects of doing equally well in Ystwith are considered assuring.

New Wye Valley, 1¾ to 1½; the works here are being pushed forward vigorously, and so far with better results than were anticipated. Pateley Bridge, ¾ to 1; the 20 west, on Rake vein, is looking cheering. In the 33 east there is no change. Other parts are the same as last reported. There is about 60 tons of pig-lead ready for sale.

[The closing quotations being given in the Share-List on the last page of the Journal it is unnecessary to repeat them here.]

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. W. Abbott, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

GAS SHARES.—The principal business in these shares, according

to this evening's report of Mr. W. L. Webb, of the Stock Exchange and Finch-lane, has been in Bahia, 15½ to 15¾; Bombay, 5 ¼ to 5 ½; British, 33½ to 34½; ex div.; Continental Union, 18½ to 20; 7 per cent. preference, 24½ to 24¾; European, 19½; ditto, new, 9½; Gas, A, 178½ to 181½; C, pref., 212; 40 per cent. debentures, 100½; Hong Kong and China, 15½; Imperial Continental, 184½ to 189½; Monte Video, 14 to 14½; Para, 6½ to 6¾; Oriental, 7½ to 7¾; Rio de Janeiro, 27 to 27½; South Metropolitan, 187½ to 189; ditto B, 189½; ditto Phoenix, 185½. Gas stocks very firm, especially Gas, A, and Imperial Continental. For closing prices see list on last page of Journal.

INSURANCE SHARES have, according to this evening's report of Mr. W. L. Webb, of the Stock Exchange and Finch-lane, been dealt in as follows:—Alliance, British and Foreign, 32½, ex div.; Commercial Union, 20 to 20½; Eagle, 5½; London and Provincial, 4½; Lion Fire, 2½; Guardian, 68½ to 69½; Marine, 85½ to 85¾; Merchants Marine, ¾ to ¾; Phoenix, 312 to 313½; Royal Exchange, 407 to 408; Universal Marine, 12½ to 12¾. Little business doing, but market firm. For closing prices see list on last page of Journal.

A petition has been presented to the High Court of Justice for the winding-up of the Trimley Hall Lime Works and Caergwrle Sand Quarries.

GOLD COAST MINING COMPANY.—We are informed that no time will be lost in sending an experienced manager and competent staff with proper machinery to Abbotayakoon to commence operations on the rich auriferous reefs which the company has been formed to work. Highly favourable reports continue to be received from the sister organisations working close by on the same ledge, and it is confidently expected that the operations on this property will more than bear out the sanguine anticipations as to its value. Captain G. Peacock, R.N., F.R.G.S., for some years on the Gold or Guinea Coast, informs us that he has an interesting brochure in the Press, wherein he speaks enthusiastically of the mineral wealth of that portion of Africa, describing it as "the veritable Ophir of Scripture."

NEW GOLD RUN COMPANY.—The re-organisation of the Gold Run Hydraulic Mining Company, under the foregoing title, is, we understand, progressing favourably, and the new certificates for shares in the former will shortly be ready for exchange for those in the latter company. The offer which some of the American creditors made to the old company to take a portion of the ground for three years, and trust to being able to pay themselves from the net proceeds, handing the surplus, if any, over to the company when the property was returned, shows the excellent local opinion of its value.

RICHMOND.—The weekly cable, received on Tuesday, states: "Struck good ore in 200 westerly drift." The present and prospective value of this development is altogether incalculable. It shows a continuous ore body from the 200 to the 600—400 feet in depth. Shareholders may expect yet greater riches, by the explorations in progress, than anything ever yet yielded by any other mine, not even excepting the Comstocks.

BIRDSEYE CREEK.—Returns are gradually increasing, the last report stating \$6500 gross, and remittance \$2000 for the month. The shares are cheap at present price, with the prospect of dividends being renewed.

ENGLISH-AUSTRALIAN GOLD MINE.—The shareholders may be congratulated on their greatly improved position, and on the prospect of their having before long a tangible proof of success by the receipt of dividends. The returns of gold have at least doubled in the last few months, and by the most recent advices they had turned the corner, the profit being above 100% for the month. The adjoining mine (close to the boundary) has long paid well, and continues to do so. The capital of the English-Australian Company is small, and the shares ought, therefore, to be more valuable. We may refer to the office (No. 8, Austinfriars) for further particulars.

KAPANGA GOLD MINING COMPANY OF NEW ZEALAND.—We are pleased to hear that the reconstruction of the old Kapanga Company under the above name is an established fact. This property in the past has proved remarkably rich, and the late company failed only from want of sufficient funds to develop it. The reconstruction gives assurance that the necessary funds will be forthcoming, and we look forward to very satisfactory intelligence from the mine at no distant day. The last few months has seen a succession of good mines offered to the notice of investors. Some of these properties are quite undeveloped, some are only partially opened, and the shares of "one and all" of them are, we think, at a premium. Without passing an opinion on the value of any of the mines, a glance at them will show that none have produced quartz which in gross and worked together has given a return of 5 ozs. to the ton. Yet this is the record of Kapanga. We may add that the capital of the new company is 50,000L, in fully-paid 1L shares, instead of 125,000L, as under the old company, so that high dividends may be looked for if the new developments turn out equal to expectations.

SOUTH DARREN.—The sale of lead and copper ores this week has realised 1092L 15s. The directors have declared a dividend of 2s. per share, payable on the 26th inst.

DERWENT.—In cutting into the side of Baunshield's Haugh lode, in the 74, they have met with nice stones of lead and blende, but cannot tell the value till the lode is fully cut through. Mr. Morpeth remarks "the indications are favourable." If this lode turns out good it will add immensely to the value of the mines. The Sun vein has further improved to 14 cwt. per fathom. The stopes are producing well.

WEST PATELEY (Lead).—The rich body of ore, which has now continued for upwards of 60 fathoms in length, has again improved in value, yielding 4 tons of lead ore per fathom. The manager writes: "The vein is wider and richer in ore, at present upwards of 2 feet wide, consisting of calc spar, gossan, and solid leaders of pure galena, worth (as above stated) 4 tons per fathom." Referring to the 67 north-west the manager adds: "The lode is looking exceedingly promising, being upwards of 2 feet wide between well-defined walls, with a small leader of ore on the footwall and letting out much water, and is altogether a much better lode than we have had in this end." The stopes throughout the mine are yielding ore in paying quantities.

PLYNIMON (Lead).—From the notice in our advertising columns it will be seen that the lease and plant of this mine are to be sold by public tender on the 26th inst.

YSTWITH LEAD MINE.—The development of this valuable property progresses in the most satisfactory manner. The discoveries already made, apart from their present intrinsic value, are regarded as most conclusive proofs of the existence of large deposits of lead at lower depths. A marked peculiarity of the district in which this mine is situated has been the existence of large deposits of ore commonly known as floats. In the adjoining mine one of these discoveries produced 30 tons of lead ore to the fathom, and from the indications at present seen in the Pengwellan lode it is in the highest degree probable that discoveries of the greatest importance are imminent.

MANCHESTER GEOLOGICAL SOCIETY.—At the next meeting April 27, the following subjects will be brought forward:—"On the Long Wall System of Working Coal, with plans of recent workings." Part III. By W. J. Grimshaw, F.G.S., and Herbert Phillips. "Description of Booth and Sugden's Detaching Hook, with drawings and models." By George H. Hollingworth. "Section and description of the Geological Strata passed through in a Tunnel for Waterwork purposes in Saddleworth, and an account of the modes of Driving, Ventilating, and Sinking of the Air Shafts." By Wm. Watts, F.G.S.

CHEMICALS, MINERALS, AND METALS.—Messrs. J. Berger Spence and Co. (April 10).—Alum: Loose Lump, 6L 15s.; ground, 7L—Arsenic: Best white powdered, 10L 10s.—Bleaching Powder, 7L 5s.—Borax: Refined English, 55L.—Copper: Green, 50s.—Copper: Sulphate, 22L 0s.—Nitrate of Lead, 30L 10s.—Nitrate of Soda: 18s.—Potash: 11½d.—Soda: Cream Caustic, 10L.—Sulphate of Zinc, 11L 10s.—Sulphur: Roll, 8L; flour, 10L.—Tin crystals, 7½d. per lb.—White lead, 21L 5s.—Brimstone: Best thirds, 6L 10s.—China-Clay, 39s.—Manganese: Sulphate, 16L 15s.—Ochre, 5L 15s.—Oxide of Zinc, 25L 10s.—Talc, 5L.—Umber, 50s.—Copper: Best ingot, 77L; seconds ingot, 76L.—Lead: Best soft English, 16L 10s.—Pig-Iron, Forge, 51s.—Spelter, 21L.—Tin: British common block, 94L.—Naphtha, Miscible, 4s. 10d.

\*\* With this week's Journal a SUPPLEMENTAL SHEET is given, which contains Original Correspondence: Pig-Tin Statistics (E. P. White); the St. Gothard Tunnel—No. II.; Nova Scotia Mining Affairs; Our Canadian Letter—Spanish Three per Cent. Bonds; the Ruby Mine; the Ruby Hill Mining District (H. Frideaux); the Panuclille Copper Company; Almada and Tritro Consolidated Mining Company; Flagstaff Silver Mining Com-

pany of Utah (A. A. de Metz); Mining Pursuits; Tin Sales by Ticketing; Copper Mines; the Microphone for Collieries; Spence's Patent Metal (J. B. Spence); Prince of Wales—South Prince of Wales (Stuart and Co.); South Penstruthal Mining Company (E. Ashmead); Devon Copper and Blende; the Mines of Cardiganshire; South Cambrian Mines, Cardiganshire (H. Buckley); a Model Mine (R. Symons); Llyn-y-Gadair Slate Quarries; Then and Now—No. II. (W. B. Cobb); East Caradon and Marke Valley Mines (W. B. Hill); Reports from Cornwall, Tyne and Wear, North and South Staffordshire, North Wales, Salop and Cardigan, Monmouthshire and South Wales, Derbyshire and Yorkshire, and Forest of Dean. Meetings of Public Companies: Economic Life Assurance, Canadian Copper and Sulphur; Chonales Consolidated, Javali, South Condurrow, South Caradon, Trugo, and West Basset. Claustral Mining School Notes. Foreign Mining and Metallurgy.

## CAPPER PASS AND SON, BRISTOL,

ARE BUYERS OF  
LEAD ASHES SULPHATE OF LEAD, LEAD SLAGS,  
ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c.  
and DROSS or ORES containing  
COPPER, LEAD, AND ANTIMONY.

## HENRY NUTT AND CO., 57, BRISTOL ROAD, BIRMINGHAM,

PURCHASERS OF  
LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN  
ASHES, TERNE ASHES, AND ALL REFUSE CON-  
TAINING TIN AND LEAD.

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PURCHASER OF  
MANGANESE, ARSENIC, FLUOR-SPAR, WOLFRAM, BLENDE, CALA-  
MINE, CARBONATE AND SULPHATE OF BARYTES, ANTIMONY ORE,  
CHROME ORE, MAGNESITE, EMERY STONE, PUMICE STONE,  
COHRES AND UMBERS, CHINA CLAY, LEAD ORE FOR POTTERS,  
TALC, PHOSPHATE OF LIME, &c.

## AUSTRALIAN TIN—PRIZE MEDAL, 1877.

THE UNDERSIGNED IS PREPARED TO EXECUTE  
ORDERS for the  
"KANGAROO" and other GOOD BRANDS.  
S. L. BENSUSAN  
Kangaroo Tin Works, Sydney, 21st May, 1879.

## HENRY WIGGIN AND CO. (LATE EVANS AND ASKIN). NICKEL AND COBALT REFINERS, BIRMINGHAM

## JACKSON AND BUTTERFIELD, ANALYSTS AND ASSAYERS,

Assays or Complete Analyses made of Copper, Silver, Lead, Zinc, Tin, and  
other Ores.  
ASSAYING TAUGHT.  
106, QUEEN VICTORIA STREET, LONDON, E.C.

## C. H. WALKER AND CO., MINING AGENTS AND ENGINEER VALPARAISO AND SANTIAGO, CHILE.

## MR. JOHN POOLE, STOCK AND SHARE DEALER, GRACECHURCH BUILDINGS, GRACECHURCH STREET, LONDON.

Has special and reliable information regarding the following mines, and he  
recommends the immediate purchase of the shares at present prices:—  
Polrose (Tin). East Crebhor. Parys Corporation.  
Prince of Wales. West Caradon. Morla Du.  
Wheal Crebhor. South Penstruthal.  
The prospects of these mines are excellent, and should the present price of  
metals be maintained a rise of 300 or 400 per cent. may be expected in the next  
few months.  
J. P. has Special Business in each at the closest net prices of the day.

## MR. JOHN RISLEY, STOCK AND SHARE BROKER, 38, CORNHILL, LONDON E.C. ESTABLISHED 1853.

BANKERS: LONDON AND WESTMINSTER, Lothbury.  
POLROSE TIN SHARES.—This great property, situated near the Great Wheal  
Vor and Great Work Mines, is in the centre of a group of tin lodes that have  
given over two millions sterling in dividends; and, according to all reports, a  
large area of rich tin ground is in Polrose undeveloped, from which great riches  
will be forthcoming during the present year.

WEST CARADON.—The riches of this mine are well known. Over £120,000  
have been paid in dividends, and a large and most important section of the mine  
is yet undeveloped. Operations have been commenced, which it is expected will  
shortly lay open rich courses of ore, which can be worked without steam power.  
This promises to be one of the greatest copper prizes of 1880, and shares should  
be immediately secured while they can be had at the present low price.  
J. R. specially and strongly recommends these mines for a rise of from 300 to  
400 per cent. during the present year.

FOR SALE:—  
20 East Caradon. 25 Polrose. 50 Cwm Fryf.  
50 Van Consols and Glyn 100 West Devon Consols. 25 West Caradon.  
Amalgamated. 1000 Devon Copper and 10 Wheal Crebhor.  
50 Parys Corporation. Blende. 50 East Crebhor.  
Address, H. WILKINS, 3, Heybourne Villas, Tottenham.

## REYNOLDS'S SELECT LIST. MARKETABLE SHARES AND STOCKS. LOW PRICED SECURITIES AND FIRST-CLASS INVESTMENTS.

JOHN B. REYNOLDS'S Circular, in an enlarged and attractive form, and in a  
style altogether unique, conveying a correct and easily comprehended idea of  
the most profitable investments, and the various improving and promising Stocks  
and Shares. NOW READY. Forwarded gratis on application to—  
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## MESSRS. J. GAPPER AND CO., PRACTICAL MINING ENGINEERS, No. 5, AUSTIN FRIARS, E.C. ESTABLISHED 1842.

Messrs. G. and Co. strongly recommend the purchase of Shares in LADY  
BERTHA UNITED, BETTWS-Y-COED (Lead), and GLANDORE MINES for  
a great rise in price during the present year.

## MR. J. ROSEWARNE, 3, COTHALL BUILDINGS, LONDON, E.C.

WEST DEVON GREAT CONSOLS.—I have strongly recommended these  
shares from 22s. 6d., and am now a BUYER of 500 at 42½. They must have  
a great rise shortly. There has been a very important discovery recently at Gun-  
nislake (Chitlers), the adjoining mine.

WANTED TO BUY—  
200 or 300 SOUTH DEVON UNITED COPPER.  
150 Bedford United. 500 East Crebhor. 200 Prince of Wales.  
30 Devon Consols. 200 Hington Down. 70 Wheal Crebhor.

## MR. THOMAS THOMPSON, JUN., STOCK BROKER, 16, ST. SWITHIN'S LANE, E.C.

Mr. THOMPSON transacts business in every species of Stock Exchange and  
Mining Securities.  
Mr. THOMPSON affords reliable information to investors, and can give, when  
desired, a list of first-class Stocks and Shares, yielding 4 to 10 per cent. dividends  
upon present prices.  
Mr. THOMPSON'S weekly Circular may be had on application.

## CHARLES J. SIMS, MINE OWNER, STOCK AND SHARE DEALER, 2, DRAPER'S GARDENS, THROGMORTON STREET, LONDON, E.C.

(Late of Tavistock, Devon, the centre of the Devon Consols District.)  
Special and reliable information and advice on the mines of Devon and Corn-  
wall, and of the Llanrwst District.  
Twenty-five years experience in Mining.  
Special information on Manganese Mines at home and abroad.  
All business entrusted to C. J. SIMS will have careful and prompt attention.

## CAPTAIN W. TREGAY, M.E., REDRUTH. ADVISES ON and INSPECTS ALL KINDS OF METALLIC MINES.



## COAL MINES REGULATION ACT, 1872.

## EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF HENRY HALL, Esq.,  
H.M. INSPECTOR OF MINES.

PERSONS desirous of being EXAMINED in this District for MANAGERS' CERTIFICATES OF COMPETENCY, under the above named Act, should at once COMMUNICATE with the Secretary to the Board of the above-mentioned District at the following address:—31A, King-street, Wigan.

By order of the Board,  
MASELL WM. PEACE, Secretary.  
N.B.—Persons who do not reside within the District are equally eligible for examination with those who do.

## Notices to Correspondents.

\* \* Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

Received.—"E. W." (Landore)—"H. G."—"M. E."—"J. Curlew (Wheat Uny)"—"H. T."—"A. C."—"S. K."—"Looker-On" (Richmond)—"P. P."—"J. D. R."—"Looker-On" (Parya Copper): Comparisons of such a nature are rarely ever fair—"Old Reader"—"R. R." (Boulogne): We do not know, but it is sure to be announced in the Journal—"Shareholder" (Wheat Uny)—"A. Manx Man"—"M. Beare": Perhaps next week—"Shareholder" (West Kitty)—"A. Shareholder," on so-called Mushroom Mines: Next week—"F.J.S." (Dunfermline).

## THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, APRIL 17, 1880.

## THE MINING INTEREST IN THE NEW PARLIAMENT.

That the mining interest will be well represented in the new Parliament admits of no doubt, but at the same time many well-known gentlemen intimately connected with the mineral industries of the kingdom will be missed from the places they formerly occupied in the House of Commons. Foremost amongst the latter will be Sir G. ELLIOT, Bart., one of the largest employers of labour in the kingdom, being an owner of coal and tin mines in most districts in England and Wales, as well as connected with extensive iron and other works. Sir G. ELLIOT was much respected by his employees, and took a great interest in the miners in particular, amongst whom he was a marked favourite. So much was this the case that at the recent election for North Durham Mr. T. HALLIDAY, formerly president of the Miners National Association, and Mr. P. CASEY, one of the leaders of the mining body, warmly espoused his cause, and addressed several meetings on his behalf. Mr. CRAWFORD, the secretary of the Durham Miners, however, whilst admitting the many good qualities of Sir G. ELLIOT, and what he had done for the miners, said the question had resolved itself into the returning of a Tory or a Liberal. The result was that Sir GEORGE was defeated, being replaced by Mr. J. JOICEY, a leading colliery proprietor in the county, and a large coke producer. His colleague is Mr. PALMER, the well-known shipbuilder of the North, the firm having coal and iron mines as well as blast-furnaces. In South Durham Mr. PEASE retains his seat, and the firm, it is well known, is amongst the largest in England as regards coal and ironstone, giving employment to many thousands of hands, and associated with him is the Hon. Mr. LAMBERTON, brother of the Earl of DURHAM, an extensive mineowner in the county. The member for Newcastle, the Independent JOSEPH COWEN, is also the owner of a coal mine. In South Northumberland Mr. W. BEAUMONT, the largest single-handed producer in the kingdom—or, indeed, in the world—has been re-elected. Mr. BEAUMONT is also a large coal proprietor in the West Riding, where his country residence is situated. In the northern part of the same county Earl PERCY will represent the interest of his father, the Duke of NORTHUMBERLAND, the owner of a great deal of mineral property. Coming more to the south we find Mr. G. W. ELLIOT, the son of Sir G. ELLIOT, has secured his election for North Allerton, and no doubt will act for his father, where such is necessary, as well as for himself, seeing that he has a large interest in mining property. Wigan has returned Lord LINDSAY and Mr. T. KNOWLES, who are well known in connection with the mining industry of Lancashire, whilst Mr. CROSS, one of the members for Bolton, is understood to be one of the owners of the Riding Lane and other collieries in the Wigan district. Boston has again returned Mr. INGRAM, who has long been connected with the Strafford Main Colliery, near Barnsley, as was the late Mr. PARRY, who at one time was his colleague in the representation of that borough. Mr. SAUL ISAAC, the late member for Nottingham, and long chief of the Clifton Colliery, near to that town, has been replaced by Mr. C. SEELEY, the leading partner in the Bulwell, Cinder Hill, Kimberley, Newcastle, and other mines in the county, the principal town of which he now represents.

Derbyshire East has sent for the first time to Parliament Mr. A. BARNES, an extensive colliery proprietor within the division he has been returned for. Sir J. JACKSON, who is the principal in the Clay Cross Collieries, amongst the most extensive in Derbyshire, has again been elected for Coventry, and will as he has hitherto done take an active part in the discussion of all questions relating to mines and miners. Mr. C. W. NEWDEGATE, who retains his seat for North Warwickshire, is a colliery proprietor in that county. In the South of England several well-known gentlemen intimately connected with mining in Cornwall and Devonshire have been returned to Parliament, amongst them being Mr. A. P. VIVIAN, a name known in all parts of Cornwall as well as in South Wales, and Mr. ROBERTS and Mr. BORLASE. For Glamorganshire Mr. VIVIAN, who is so thoroughly conversant with all that relates to the southern part of the Principality, has been returned along with Mr. TALBOT, whilst Swansea again gives Mr. DILLWYN as its member. Going to North Wales almost the first name that we find reaching the boundary is the Right Hon. Mr. GLADSTONE, who is the lessor of the Aston Main Colliery and the clayworks connected with it. The mine is about three miles from Hawarden, but is connected with Queensferry by a railway. On the estate also there is a good deal of other minerals, which were leased by the late Sir STEPHEN GLYN, from whom the property not so long since came into the hands of the GLADSTONE family. Sir W. WATKIN WYNN, Bart., has maintained his position in Denbighshire, in which he has a large mineral property, and the Ruabon district in particular, and where he is highly esteemed for his consideration towards the poor and his marked liberality. The Duke of WESTMINSTER is one of the largest mineral owners in Flintshire, and his interest will be looked after, should such be necessary, by his son, Lord R. GROSVENOR, who has retained his seat for Flintshire. In Scotland it does not appear that mineowners have sought for seats in Parliament, for none of those returned appear to be directly connected with the raising of minerals. It should, however, be stated that there are a large number of the elected members who are connected with mining companies whose names cannot be obtained without great trouble. We had almost overlooked one of the last elections—that for North Lincolnshire—in which Mr. R. WINS, the owner of a vast area of ironstone which is now being worked most extensively at Frodingham, near Brigg. Having given the names of the leading mineowners who have been returned to the House of Commons, we must not overlook the fact that the interests of the working miners will again devolve upon our old genial and unobtrusive friend, Mr. THOMAS BURT, the member for Morpeth, whose unassuming style obtained for him in the last Parliament the respect of the members on both sides of the House, and Mr. MACDONALD, who has again been so fortunate as to win the seat at Stafford.

In the Upper House there are a great many peers directly connected with mining, and these include the Duke of Northumberland, the Duke of Sutherland, the Duke of Westminster, the Duke of Buccleugh, the Marquis of Bute, Earl Dudley, Earl Granville, Earl

Lonsdale, Earl Fitzwilliam, Earl Rosslyn, Lord Overstone, Viscount Falmouth, Lord Robertes, and a great many others of various degrees in the peerage of the United Kingdom. In both Houses, therefore, the mining interests of the country will be well represented.

## THE MINING AND METALLIC INDUSTRIES OF MONMOUTHSHIRE.

It is only of comparatively recent date that Monmouthshire has been included as one of our great mining and manufacturing centres, but has been looked upon as a part of South Wales, in which the returns of its produce have been included. At one time, indeed, it formed a portion of the Principality during a system of feudal jurisprudence which prevailed up to 1535, when it was enrolled among the English counties. Now, however, the county takes high rank as a most important one as regards mining and the production of raw and manufactured iron, steel rails, tin plates, paint, &c. Going from Gloucester by rail along the course of the Severn the scenery is magnificent, including the remains of Chepstow Castle, Raglan Castle, and the ruins, clustered with ivy, of Tintern Abbey. Then there is the fine coal and iron shipping ports of Newport and Chepstow, whilst there is also the Wye, navigable for a considerable distance for large vessels. The carboniferous limestones pass round the coal field, and includes the entire basin of the latter measures, yielding at various points along the northern outcrop the limestone so well adapted as a flux for the smelting of the ores at Ebbw Vale and other places, whilst it is also found well developed near Swansea. The series of limestones, however, appear to great advantage at Tintern and Chepstow, where they are seen in all their grandeur. The upper beds of the carboniferous limestone consists of alternating beds of dark shales with bands of limestone, passing downwards into massive seams of the latter about 1000 ft. in thickness.

The blackband ironstone is found in connection with the upper and lower coal measures, being found above what are known as the "Three-Quarter coal," and over the "Bydyllog coal." There is also the Darin Pins Ironstone, of the same species as in the Pennystone band of Coalbrookdale. The seams are thin, and in the upper and middle portions of the coal measures there are the usual fossils, being shells chiefly of the genus Anthracosia, but lower down there are others, resembling those found in the measures of the North of England. No hematite appears to have been raised in the county, so that a good deal of stone, both ordinary and superior, has to be imported from other places. The black band raised at Pontypool, it may be said, yields on an average about 38-4 per cent. of metallic iron. In 1863 the quantity of ore raised in Monmouthshire was estimated at 350,000 tons, being a very marked increase over the two previous years, when the returns were under 100,000 tons. In the four or five following years, however, the yield proved to be much larger, but the returns were included in those of South Wales, although the output of ironstone previously had been greatly in excess of what was raised in the southern part of the Principality. The last yearly return, however, gives only 99,793 tons for Monmouthshire as coming from the coal measures. But it should now be said that, in consequence of the large quantity of steel rails now being turned out, it is necessary to import the best hematite stone for the Bessemer converters, and there has been brought to Newport from Bilbao, in Spain, nearly 20,000 tons a month of that well known stone.

As before stated there are vast quantities of limestone for smelting the ore, whilst the fuel is also supplied direct from the pits belonging to the companies and others working the furnaces. In Monmouth there is about the largest company engaged in the production of pig in the kingdom, the well-known Ebbw Vale, there being no less than 18 furnaces at that place and at Abersychan, Pontypool, Sirhowey, and Victoria, and of these last year some 14 were in blast, so that the production of pig was large. Then comes the Blaenavon Iron and Steel Company with nine, five being in blast, whilst the Nant-y-Glo and Blaifa Ironworks Company, out of nine furnaces, had only one in blast in 1878. The Tredegar Company is a well-known one, there being nine furnaces, but not all in blast—whilst the Rhymney Company has a similar number. A considerable proportion of the iron made is now converted into steel, but there is still a good deal of the ordinary metal turned out. The production of both qualities, however, has varied a good deal. In 1866 the output of 49 furnaces was 410,000 tons; in 1868 44 furnaces gave 427,820 tons; in 1872 there were 49 furnaces in blast, giving a yield of 481,342 tons; whilst in 1874 the 41 going gave 360,480 tons. During the next two or three years a number of the old furnaces were demolished—so that, of course, less were in blast, yet in 1875 the 35 in operation gave 413,946 tons; in 1877 there were 30 going, producing 369,480 tons; and in the following year 29 yielded 373,444 tons, showing that many of the furnaces must have been of a larger capacity than the old ones that had been cleared away.

Until comparatively recently the malleable iron trade of Monmouthshire has been the reverse of active, so that not so very long ago one-third of the puddling furnaces were standing. There has also been a falling off in the number of both puddling furnaces and rolling mills as compared with former years, and we find that whilst in 1872 there were 637 furnaces and 49 mills, in 1874 there were only 419 furnaces and 47 mills. In 1876, however, the number of furnaces had increased to 595, and the mills to 53. In 1877 there was another change, so that the number of furnaces engaged in puddling iron was only 395, with 38 rolling mills, and in the following year there was another decline, there being only 352 furnaces, with 42 rolling mills, the Blaifa, Nant-y-Glo, and Pontnewynydd being standing. The Ebbw Vale Company, as might be expected, has by far the largest share of the business doing, having in 1878 no less than 170 puddling furnaces and 15 rolling mills. The same company is now largely engaged in the making of Bessemer, having four 6-ton and two 8-ton converters, and is turning out upwards of 2000 tons of rails weekly. The Rhymney Iron Company has seven rolling mills and three 7-ton Bessemer converters, whilst the Blaenavon Company, with eight mills, has also two or three large converters. Monmouthshire, along with the adjoining county of Gloucester, has long been noted for its tin plates, there being several works at Newport, Pontypool, and Monmouth, the largest being the Abertillery, Abercarn, and Pontypool. These works have shared in the depression which not so long ago prevailed in almost every hardware industry, but now there appears to be considerable activity at most of the establishments. A very large proportion of the tin-plates made in this country, it may be said, is absorbed by the United States, in fact considerably more than one-half.

The important coal field of Monmouthshire, though now distinct from that of Bristol and the Forest of Dean, and separated by miles of intervening strata, together with that of South Wales, once formed a single basin, but had been severed owing to subsequent upheavals and depressions. At one time the entire field had been a most immense one, several hundreds of square miles in extent, containing at a depth not exceeding 4000 ft. 36,900,000,000 tons, or about three-sevenths of all the coal in the United Kingdom at the same depth. The coal field is traversed throughout nearly the whole of its length by a remarkable anticlinal axis, which has been traced from the North Risa by Pontypool and Ton-yr-eaf. The succession of strata in the measures are shales, with ironstone; sandstones, including the Gower series, and coal beds, of which there are about 25 more than 2 ft. thick, giving a total thickness of 11,650 ft. Then follows the millstone grit, consisting of hard sandstone, conglomerate, with parting of shales, and these are followed by the carboniferous limestone. The richest coal-bearing strata, it appears, are at the top and bottom of the formation, the central portion formed of the Pennant grit being comparatively poor. The lower measures of the field in some places are rich in coal and ironstone, having a remarkable group of fossil shells of marine genera, some of them having survived from the period of the carboniferous limestone. The lower measures are surmounted by an extensive series of sandstones, included under the term of "Pennant grit," the same as in Somersetshire. The fractures which traverse the large coal field in the great majority of cases are referable to one system nearly perpendicular to the longitudinal of the basin, and, therefore, ranging from north north-west to south south-east, few ranging from east to west. The production of coal, it may be said, has been somewhat irregular, whilst no material increase has taken place during the last few years.

In 1866 the output was 4,455,000 tons; in 1868 it had increased to 4,569,500 tons, and that quantity has only been reached once since. Indeed, in 1870 it had fallen to 4,364,342 tons, and in 1874 to 4,225,695 tons. Again, in 1876 it went up to 4,999,985 tons, but in 1877 it was only 4,354,000 tons, and in 1878 it was 4,491,291 tons. In connection with the working of coal in Monmouthshire a considerable tonnage of fire-clay is raised, the output, so far as can be ascertained, being at the rate of about 80,000 tons per annum. From the foregoing facts it will be seen that the industries of Monmouthshire are of a most important character, and must of necessity go on increasing, owing to the vast extent of the mineral field, and the many furnaces, rolling-mills, and mines will continue to find profitable employment for many thousands of men.

## IRON IN VIRGINIA.

A paper of considerable interest has been read by Prof. EGGLESTON before the geological section of the New York Academy of Sciences on the iron and coal resources of Virginia. According to the professor, these resources are very considerable, although the original State of Virginia has been so officially divided that all the coal lands are in West Virginia, and all the iron lands in Virginia. The iron beds of Virginia are, according to Prof. EGGLESTON, remarkably rich, yielding all the ores within a very small space. To the north, along the Blue Ridge, are the Potsdam ores, which are used in the Shenandoah Ironworks. The mountains to the south are full of the Hamilton shales, and outside of the iron-producing beds (taking the State as a whole) the upper district has a full line of ores, averaging from 45 to 55 per cent., and in the class of specular ores fully as good as those of Lake Superior. From Staunton, 100 miles south of the James river, there is a series of mountains made up almost entirely of iron ores. The importance of this district was very considerable some years since, as the rich iron beds are on the line of the river and the canal, and many furnaces were erected. Some of the furnaces prospered, but others stand to-day monuments of wasted effort. The ore beds are admirably arranged for mining, and on account of the outcrop on the mountain side working operations can be carried on without difficulty. Formerly furnaces were worked by charcoal, but now the coal and iron are brought together by railway, and the increase of the manufacture promises to be marked. The Confederate Government tried to produce iron in this part of Virginia, but the engineers consulted struck points at which the quantity of phosphorus in the iron was proportionately large, so that the results attained were discouraging. Prof. EGGLESTON observed incidentally that there was an impression in Virginia that Virginian coal could not be satisfactorily made into coke. To sum up, the professor expressed his conviction that if an industrial survey were made of the State capital would flow into it, and Virginia would enjoy an era of prosperity such as it had never yet attained.

It may be asked—and fairly asked, too—how it is that, possessed of such abundant natural resources, Virginia has not been more prompt in turning them to account. We fear that an answer must be found in the pride, indolence, and ignorance of the inhabitants. The Virginians have conceived somehow an idea that they are the *élite* of America, and that they are too well born to work. Then the ignorance of the Virginians in matters of finance is something astounding. Although 15 years have elapsed since the close of the great civil war, which entailed great suffering and misery upon the Virginians, they have not yet made a manful effort to re-establish their public credit. It is true that an Act was carried in the last session of the Virginian Legislature with this ostensible object; but it was afterwards vetoed by the Governor, who justly considered that the measure, instead of restoring the public credit, would have destroyed what was left of it. The Virginian plan of restoring the credit of Virginia had, at any rate, the merit of simplicity. It was simply to repudiate about one-third of the debt, and scale down the interest upon the poor remainder. In other words, the unfortunate bondholder of Virginia was to be fleeced up hill and down dale. When such outrageous ideas as these prevail in the Legislature of Virginia, it is not surprising that capitalists look with distrust upon all appertaining to the State, and that its natural resources remain neglected and undeveloped. Before the Virginians can flourish they must learn a little political economy.

## THE LONDON BUILDING EXHIBITION.

Among the exhibits on view at the Agricultural Hall during the past week were many of general interest to the readers of the *Mining Journal*, not the least attractive of these being the beautiful specimens of enamelled slate shown by Messrs. Ford and Margrett, of Birmingham. It appears that the whole of the slate used is quarried in Wales, and by the processes to which it is submitted by the firm in question it is made almost undistinguishable from the more expensive marbles which it is intended to replace. The slabs, which arrive at the works 5 or 6 in. in thickness, are first cut by circular saws into the required width, and the material then passes to the planing machine, and receives what is termed a "first surface." By the use of cutting tools, carvings and mouldings, many of intricate design are formed by this machine, and afterwards handed to the carvers to be finished. After quitting the carver the material is subjected to the sanding process. The piece of slate is fixed to a circular iron plate, 8 ft. in diameter; the disc revolves at a high speed, and with the aid of sand and water a smooth surface is given to slate, the polish being afterwards completed by hand. Next comes the veining, which is effected by a man having tools and apparatus fitted for the purpose. The colours are distributed on the surface of the slate in such a manner as to imitate any desired stone or marble. In some instances the colours are placed on the surface of water, which being agitated by wind, or the breath, causes the colours to intermingle. The slate is then dipped into the water, the colour adheres to it, and produces the veins resembling the natural marble. The coating is succeeded by the enamelling process. The new coloured slabs are put into drying stoves constructed on Perkins's system and dried, the temperature varying in each stove. That used for the first hardening is, comparatively speaking, cool; in the next the heat is greater, and in one instance is 250°. The process consists first of laying a coat of enamel, then the slab is stoved, afterwards rubbed down with pumice stone, brought to a perfectly smooth surface, once again enamelled, then stoved. Taken out, the rubbing down with pumice stone is repeated, then comes polishing with the aid of rotten stone and another hardening in a stove. This is followed by hand rubbing with the aid of rotten stone until a fine polish is effected.

Another interesting exhibit was that of the Cakemore, Causeway Green, and Lower Holt United Brickworks and Colliery Company, whose London agents—Messrs. Ward and McCulloch, of Wharfedale-road—showed various kinds of bricks, such as common blues, pressed facings, plinths, round noses, splay, and angles; paving in the form of red and blue octagons, and quarries blue pavings, and grooved stable paving; copings in various forms, as ridging, round nosed, half round, stop ends, and angles; tiles of various kinds, red, brown, and blue roofing, hips and valleys, ridging, and so on; and sundries in the form of sink bricks, air bricks, window-sill bricks, manger bricks, and kerbing for footpaths. The works owned by the company turn out some of the most celebrated of the South Staffordshire blue verifred ware, and from the variety and excellence of the samples exhibited there should be no difficulty in obtaining a very large market for them, so that the shareholders will be as satisfied with the permanency of their dividends as will the users with the durability of the bricks.

There was a good display of Messrs. McTear and Co.'s asphalted roofing felt, which might be used advantageously in the construction of cheap sheds about mines where the economy of keeping under cover machinery and other things which are too often exposed would soon repay the outlay. The cost of erections of this kind is merely nominal, as the price of the felt is but 1d. per square foot, and even when it is used for covering permanent buildings the rafters need not be more than about 3 by 1½ in., placed 3 ft. apart, and covered by ½-in. boarding. A pitch of 2 or 3 in. to the foot will be sufficient. The felt can be laid from gable to gable, beginning from below; or from eave to eave across the roof. It should be stretched tightly



The granulitoid gneisses or gneissoid rocks of South-east Wynnad are Mr. Smyth thinks, probably only completely metamorphosed sedimentary strata. The minerals observable are feldspar, quartz, hornblende, mica, talc, chlorite, pholerite, and magnetic iron. The ordinary foliated rock is usually massive or composed of thin compact layers of quartz and feldspar, or of quartz and hornblende. Magnetic iron takes the place of one or other of these constituents, or accompanies them in some places; and at and in the neighbourhood of Marpanmadi North Peak magnetic iron is largely present in the rock, the decomposed surface stone exhibiting layers and reniform and nodular masses of sesquioxide of iron. Some specimens are composed almost entirely of quartz and magnetic iron, and in others the iron occurs with quartz and feldspar; and again there is a variety composed of translucent quartz, magnetic iron, and an asbestiform mineral resembling iron amphibole. In many places the country rock besides being intersected by large persistent reefs of quartz is seamed and veined throughout with threads and strings of quartz, not in any way conformable to the lines of foliation; and where a section of the rock decomposed *in situ* is laid bare these threads and strings are clearly traceable through the red, reddish-brown, and dark brown of



the kaolin-like clays resulting from the decomposition of the stone. These veins vary from  $\frac{1}{2}$  in. or less to 6 in. or more in thickness, and they consist either of white opaque or blue opaline quartz, the latter not unlike that which forms thin layers in the foliated country rock.

The quartz veins of the Wynaad differ in some respects from those intersecting the almost unaltered lower Silurian rocks of Australia, but they are usually as thick, or thicker, and quite as persistent. The auriferous veins, those which have yielded well both on the large scale and by tests in the laboratory, are laminated and more or less pyritous, and those which up to the present time are regarded as less auriferous are composed of saccharoid, often snow-white opaque quartz with transparent particles of quartz impacted, and have generally an obscurely granular appearance—more indeed like quartzite than vein quartz, and in many places they exhibit a tendency to become granitic, large plates of muscovite and apparently a hydrated muscovite in similar plates with here and there a little felspar giving them a character which separates them at once from the well-known rich pyritous veins near Devála. Some of the massive quartz near Moopenaad and Vellirymulla micaceous and in structure simulating granite, or partaking of the character of the country rock, might well be supposed to be bedded and not vein quartz, and contemporaneous with the gneissoid rocks with which it is associated. There was no true quartzite seen in these places, but it may be conjectured that the induration and alterations of composition and structure, which have resulted in the formation of the foliated gneissoid rocks, would not be without influence on purely siliceous granular imbedded masses. From the larger (true) veins "leaders" are thrown off, most commonly to the westward. The leaders usually dip at a low angle, but in some places they are so large and of such a form as almost to give the character of "saddle" reefs to the masses of quartz.

The ordinary casing of the reefs is a talcose schist (easily separable into thin laminae) with oxide of iron and the minerals ordinarily therewith associated; and gold in small flat particles, visible to the eye, is not rare in the casing. The casing of many of the larger auriferous reefs is quartzose and ferruginous rudely laminated and with scales of ripidolite and talc scattered through the mass. The average thickness of the true quartz veins is about 5 ft. Some are less than 2 ft. in thickness and others again exceed 14 ft. The greater number, however, vary from 4 ft. to 7 ft. The direction of the veins is usually N. 30° W.—30° E., and some are nearly due north and south; and the dip, though nearly always easterly, is irregular. On the summits of the steep hills the veins are commonly almost flat or with a very slight dip to the eastward, but at a little depth from the surface the dip is, as might be expected, very different. It is not seldom as much as 30°, 40°, and 60°. It is not yet possible to say what number of separate veins of quartz there are in the area which has been examined, but there are at least 200 outcrops—not necessarily distinct reefs. From Moopenaad to Cherambádi, a distance of 11½ miles by the road, 23 outcrops were observed, many of them indicating reefs of great thickness; from Cherambádi to near Nadukani in a straight line south-easterly, 12 miles, there are at least 18 separate veins; and east and south-easterly of Devála the reefs are from 5, 5½, 7, 10, 15 and 23 chains apart. Gold is almost universally distributed throughout the soils and quartz veins of the Wynaad; it occurs also in the sands and soils both on the east, west, north and south. In South-East Wynaad, on washing a few dishes of the surface soil anywhere, a few specks of very fine gold will be found; in the vicinity of the reefs rather heavy gold is often got by sluicing; and if a suitable spot be selected the native miners will obtain, even by their methods, sufficient gold to remunerate them for their labour. The character of the rocks, the nature of the climate, and the formation of the country have all contributed to prevent the accumulation of drifts such as are found in California and Australia. There are here no gullies having in their beds shallow deposits with a well-defined auriferous stratum, no "deep leads" covered and protected by layers of volcanic rock; there are only, as a rule, in the district now under consideration "surfacing" and quartz mining.

As the prospectus of the Balcarras Gold Mining Company of Southern India is published in another column of to-day's Journal, it may be interesting to mention that at page 25 of Mr. Brough Smyth's report the property is directly referred to. He states that—

"The Dunbar Reef is seen at the surface at the face of a very steep hill, about 22 chains from the road forming the northern boundary of the Sheardale and Dunbar estates. Its strike, as well as could be observed, is north 30° west, and its dip easterly at about 27°. The thickness exposed is from 3 ft. 6 in. to 4 ft.; the total thickness could not be ascertained. The quartz is full of iron pyrites in places, and generally highly ferruginous. It is a remarkably good-looking stone, and it was disappointing to find no gold visible in it. There is a pretty large excavation near the outcrop, but it is now covered with soil washed down by the rains."

He then quotes Mr. King's reference to this reef—  
"Mr. P. V., the superintendent of this garden, when down showing me the reef was successful in knocking out pieces of quartz in which small streaks of gold were visible. The underside of this lode is very like in colour and contents to that of the Alpha Company, the richer seam in the quartz being on this side. Leaders are numerous and large. The casing is of talcose schist, and seams with ferruginous and manganese streaks. The lode is traceable northwards into the Balcarras estate, where there is a great show of white quartz on the eastern slope of one of the low hills. This part of the reef has been very extensively riddled by the old miners. In fact, all its extension northwards towards Pan-dur has been washed, and its immediate neighbourhood on the underside is still a favourite locality for washing during the rainy season. It runs through the Elizabeth and Sandhurst estates, and close alongside the Caroline and Mr. Holmes's Application, and thence northwards. From this description it would appear that the direction of the reef is north 32° west."

In conclusion, Mr. Smyth points out that although all previous efforts to work the gold deposits have proved commercially unsuccessful, this is readily explicable by the method in which operations were carried on. As to the Alpha Company, the principal one, he is satisfied that their machinery and appliances are such as to make it impossible to save the gold, even if the best scientific and technical knowledge was brought to bear on the operations. The one fact that oil and grease were allowed to fall on the copper plates and to get into the coffers is sufficient to show what the state of affairs was when the best results were obtained. The main reef within the area held by the Alpha Company is nearly 2000 ft. in length; it is from 4 to 14 ft. (at least) in thickness; in one part the quartz is of extraordinary richness, and other parts have yielded well. Native miners have picked what must have been auriferous quartz all along the outcrop, and at the "Skull" their excavations are extensive. The position of the reef and the formation of the ground both offer facilities for economical mining. It appears that the yields of gold have been for 779½ tons of quartz 2 dwts. 9 grs.; and for 322.66 tons, 10 dwts. 12 grs.; and the gold was got under the most disadvantageous circumstances. The prices paid by the Alpha Company and tributaries for labour, for timber, and for firewood are no criteria to guide him in estimating the costs of mining at Devála. Under skilful management arrangements would be made for procuring all necessary supplies at the minimum cost, but in desultory operations the maximum cost as a matter of cost has to be paid. He can safely say that the want of success of the Alpha Company has not arisen from any peculiar difficulties in separating the gold from the matrix, and he cannot believe the cost of labour or fuel would be so great here as injuriously to affect mining pursuits.

The MARKET FOR MINING SHARES is extremely quiet, in sympathy with the downward tendency of the tin market. Holders of shares in sound mines should increase their interest, as those who are best qualified to judge are making their arrangements in anticipation of a rise in price. The extraordinary account presented at the West Basset meeting has had an excellent effect, and is another illustration of the wisdom of shareholders holding their shares firmly when they find themselves in possession of a property which must ultimately prove to be a great success. Not long since West Basset shares could scarcely be given away, to such an extent had the temporary panic seized some timid and ignorant holders of shares. Now the stock stands at 18 to 19½, notwithstanding passing depression in prices generally. There are mines now in vigorous operation which, as far as their merits are concerned, have passed out of the region of controversy into that matter-of-fact stage which stamps them as first-class investments, and authorities in the neighbourhood of West Kitty and elsewhere reckon that undertaking as being one of the number; and those gentlemen who have been shareholders for many years, and who are now the largest holders of shares, reasonably expect a good return for their outlay. It is notorious that the price of a mining share is in no way indicative of the intrinsic value of the mine. The instance of West Basset, as noted above, is sufficient illustration. The price of West Kitty shares is such as will naturally attract increased attention if in the present depression they should remain at quoted prices. Seeing, however, the large addition to the net which has been secured, the value of which can scarcely be estimated, and the permanent character of the improvement in the mine itself, it is doubtful whether many shares can at this moment be bought at 40s. West Peavor and Blue Hills are not neglected, but they do not receive

that attention which they deserve. The price at which Blue Hills Mine is selling may be simply characterised as absurd, and investors can surely not be aware of the actual position of affairs at West Peavor. Taking all these things into consideration, there is no reason to doubt the wisdom of those persons who are persistently urging mining investments; but unless mines are well known and in first-rate districts, and have had the advantage of all the preliminary work being done, there never was a time when greater caution should be exercised than at the present moment.

JOHN B. REYNOLDS.

#### STATISTICS OF COPPER—APRIL 15.

STOCKS IN EUROPE.	
Chili ores and regulus, Liverpool and Swansea (fine). Tons	466
Chili bars in Liverpool	25,236
Chili bars in Swansea	6,748
Chili ingots in Liverpool and Swansea	136
Foreign copper (chiefly Australian) in London	4,614
Foreign copper (chiefly Australian) in London, landing	753
English copper in London	50
Chili bars, ingots, and Barilla in Havre	3,357
Other copper in Havre	633
Stock of copper contained in other foreign ores and Spanish precipitate (fine)	1,787
AFLOAT AND CHARTERED—CHILI TO EUROPE.	
Advised by mail—Ores and regulus	2,569
Bars and ingots	10,640
Advised by cable—Ore and regulus (fine)	200
Bars and ingots	2,600
AFLOAT FROM AUSTRALIA.	
Advised by mail (fine copper)	1,222
Advised by cable (fine copper)	1,321
Total	62,232

Price of bars, 60s. 10s.

Against 63,958 tons on April 1; 62,902, March 1; 59,644, Feb. 1; and 62,140 tons, Jan. 1. Price of bars—65s. 10s. on April 1; 70s. 15s., March 1; 73s. 6s., Feb. 1; and 65s. 15s., Jan. 1.

London, April 16. HENRY R. MERTON AND CO.

#### PETROLEUM IN THE PROVINCE OF HANOVER, &c.

The following is a copy of a letter received from the Baron von Dückler, dated Bückeburg, Dec. 11, 1879:—

DEAR MR. KASTEN.—In accordance with your request I have thoroughly investigated the petroleum indications of the neighbourhood of Hanover. I have read some of the most important data on the subject, and have examined the most important points of this subject. In consequence of my observations, and on the basis of the American conditions, I do not hesitate to declare that a gigantic subterranean petroleum lake in that neighbourhood is, in all probability, to be found. The respective indications, appearances, and discoveries are of such a striking nature as only existed in the richest petroleum districts of Canada, Pennsylvania, and the shores of the Caspian sea, and the reason of the insignificant results are only to be accounted for by the insufficient extent of the borings that were made up to the present time. The geographical extent of the lake is a very considerable one, considering the already working asphalt mines, which must be taken as products of petroleum wells. The field commences on the south near Krienssen, proceeding westerly beyond Hanover towards Bentheim, and terminates north-easterly near the well-known petroleum wells of the region of Peine, Brunswick, and Celle. The length from south to north is, therefore, more than 12 German miles (45 English miles), and the width at least 6 to 8 German miles (24 to 32 English miles).

The borings up to the present have not been quite unimportant nor without success: they have near Wietze, Oedesse, and Serthe given flowing oil, but only a few holes were bored to a depth of 200 or 300 metres, while in America over 50,000 borings have been made. Our few borings have not been fortunate enough to strike the proper fissures or crevices where the oil circulates upwards, and they were not deep enough to reach the lowest basins, yet their results have already shown what there may be. Geologically, the existence here of a mineral oil formation is probably explained by the existence of deep folds of the old stone-coal formation, as the general folds of the earth's crust often show, and as the construction indicates here. In the deep sinkings the fat and gaseous coals, owing to the heat of the earth, undergo distillation, and drive their oily vapours upwards, where they are finally condensed, as at Bentheim. Through this operation all rock fissures of the upper formations are filled with oil and gas, and in narrow crevices the lighter oil rises to the surface. If borings are made to the fissures in the subterranean regions of the red clay or coal deposit the finding of flowing oil is almost certain, and the artificial canals for the rising are opened up.

It is my firm conviction that such is the fact here, and that a great national interest presses for extensive exploitation. American examples have proved often enough how bored oil wells became gold wells, so that a stimulus ought to be given to speculation, and encourage small capitalists to venture their mite.

Boring companies will have to be formed—such as have with success worked in Westphalia on stone-coal. Many subscribers of small amounts will reduce the risk to a trifle, and it ought to be easily done. The searching for earth oil or petroleum, rock salt, &c., will result in the creation of a new industry, and the keeping of millions in the country which now go to America for petroleum.

FRIEDRICH VON DÜCKLER,  
Royal Prussian Council of Mines, Deputy, &c.

EPPE'S COCOA—GRATEFUL AND COMFORTING.—"By a thorough knowledge of the natural laws which govern the operations of digestion and nutrition, and by a judicious application of the fine properties of well-selected cocoa, Mr. Eppe has provided our breakfast tables with a delicately flavoured beverage which may save us many heavy doctors' bills. It is by the judicious use of such articles of diet that a constitution may be gradually built up until strong enough to resist every tendency to disease. Hundreds of subtle maladies are floating around us ready to attack wherever there is a weak point. We may escape many a fatal shaft by keeping ourselves well fortified with pure blood and a properly nourished frame."—*Civil Service Gazette*.—Sold only in packets labelled—"JAMES EPPE and Co., Homeopathic Chemists, London."

HOLLOWAY'S OINTMENT AND PILLS.—As spring approaches a most favourable opportunity offers for rectifying irregularities, removing impurities, and erasing blemishes which have arisen from the presence of matters forced by winter from being transpired through the pores. This soothing ointment well rubbed upon the skin penetrates to the deeply-seated organs, upon which it exerts a most wholesome and beneficial influence. Well nigh all the indigestions give way to this simple treatment, aided by purifying and aperitive doses of Holloway's pills, round each box of which plain instructions are folded. Bilious disorders, loss of appetite, fulness after eating, lassitude, gout, and rheumatism may be effectively checked in their painful progress, and the seeds of long suffering eradicated by these remedies.

**SOUTH-EAST WYNAAD ESTATES AND GOLD MINING COMPANY (LIMITED).**  
No. 1, Queen Victoria-street, London, E.C., 12th April, 1880.  
Notice is hereby given, that the FIRST GENERAL MEETING of this company, being the Statutory Meeting, to be held within four months of the Registration of the Company, will be HELD at the Cannon-street Hotel, on WEDNESDAY, the 28th of April next, at Two o'clock p.m.  
By order of the Board,  
W. H. THOMPSON, Secretary.

**SOUTH CAMBRIAN MINES, CARDIGANSHIRE.**  
A SMALL NUMBER OF SHARES in this Company FOR SALE.  
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We can with confidence recommend the following SHARES:—Parys, Glasgow Caradon, Prince of Wales, and South Prince of Wales.  
A copy of our "Investor's Exchange and Mart" will be sent, post free, on application.

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LEAD ORES.			
Date.	Mines.	Tons.	Price per ton.
April 10—Foxdale	100	£11	0
16—South Darren	55	16	0
BRELANGE (Silver-Lead). This company sold 180 tons small ore, containing 77 per cent. of lead and 7½ oz. silver, at 10s. 2s. 6d. per ton, to the Société de Pontgibaud de Paris; and 250 tons large ore, containing 80 per cent. of lead and 8 oz. silver, at 11s. per ton, to Nevill, Druce, and Co.			

BLENDE.			
Date.	Mines.	Tons.	Price per ton.
April 15—Frongoch	100	£3	10
		6	

COPPER.			
Date.	Mines.	Tons.	Price per ton.
April 15—South Darren	33	£2	6
— ditto	17	2	10

**WANTED,** for one of the largest COPPER MINES at LAKE SUPERIOR, UNITED STATES, an EXPERIENCED ENGINEER, having the requisite knowledge for directing the experimental dressing of waste derived from the present dressing floors, and for erecting, according to results obtained, additional continuous dressing apparatus. Salary, for a suitable man, who will have to be ready to start for his destination by the end of this month, and to stay there during six months, \$3000, besides \$1000 are allowed for travelling expenses.  
Apply, by letter, stating past experience, under "L. S. B.," MINING JOURNAL Office, 26, Fleet-street, E.C.

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**THE ADVERTISER** being connected with EXTENSIVE COLLIERIES in LANCASHIRE, where the ENDLESS CHAIN HAULAGE is much used in preference to all others, is open to DESIGN, ARRANGE, and CONTRACT for the same to other firms, either for UNDERGROUND or SURFACE WORK. Also PUMPS, SCREENS, &c., required at MINES or COLLIERIES, will be supplied on reasonable terms.  
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Full particulars and price to W. McMILLAN, 34, Surrey Grove, Old Kent-road, S.E.

**A CHEMICAL GENTLEMAN,** large and varied experience, and a first-class scientific attainments, is desirous of connecting himself with some NITRE WORKS on WEST COAST, SOUTH AMERICA, as SUPERINTENDENT or PROFESSIONAL ADVISER. First-rate Surveyor, Accountant, and Correspondent. Speaks Spanish fluently. References. Location healthy.  
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**TO BE SOLD (PRIVATELY),** the PLANT at WOODLESFORD COLLIERY, near LEEDS, including a 30 ft. GUBAL FAN and PAIR of ENGINES, A PAIR of 27 in. WINDING ENGINES, a quantity of PUMPS, LOCOMOTIVE, HEAD GEAR PULLEYS, RAILS, WEIGHING MACHINES, and other ENGINES, &c.  
To view, and for particulars, apply to Messrs. MAMMATH and WHITE, Mining Engineers, 1, Albion-place, Leeds.

**FOR SALE,** a 60 inch cylinder Cornish PUMPING ENGINE and 10 ton BOILER.  
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**FOR IMMEDIATE SALE** (almost new), a DIAGONAL COLLIERY PUMPING ENGINE, 30 inch cylinder, 6 feet stroke, with cast-iron seat, bell cranks, connecting rods, and radius bars, all complete.  
Apply to RIDDEL and Co., Engineers, Glasgow.

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#### VALUABLE LEAD MINE.

**FOR SALE, BY TENDER, the PLYNIMMON LEAD MINE,** situated in the rich Cardigan and Montgomery district. Two shafts have been sunk and levels driven out at the 12, 24, and 36 fms. below adit. The new engine-shaft, in the centre of the ore ground, is in course of sinking to the required depth for a 43 fm. level at the time of ceasing operations (from want of funds and depressed price of lead at that time), and is now about 9 ft. below the 36 fm. level.  
From the workings at the present depth (only 36 fms. below adit) about £40,000 of ore have already been returned. It is estimated that in the ground opened, and by driving only 20 fms. in the 36, there is still a reserve of 750 tons of lead ore (worth probably at present prices about £2000).  
A cross-cut south has been commenced at the 12 fm. level, which should reach the south lode in about 15 fms. and if the lode is cut rich would add greatly to the value of the mine.

The mine is furnished with all usual MINING PLANT and MACHINERY, including 50 ft. WATER WHEEL and ENGINE for pumping, &c., and has the most powerful pumping gear in the county. The mine could be drained in about six weeks after commencing operations.  
Particulars of leases and further information may be obtained on application to Mr. A. KESLY, Solicitor for the Mortgagees, 14, Great Winchester-street, London, E.C., to whom tenders are to be sent on or before Monday, 25th inst.

**FOR SALE, BY PRIVATE TREATY,** one of the BEST KNOWN COLLIERIES in SOUTH WALES, in good working order, and capable of an output of 200 tons per day. Principals and solicitors only treated with.  
Apply to "R. S.," MINING JOURNAL Office, 26, Fleet-street, E.C.

**FOR SALE, a FREEHOLD PROPERTY,** containing a deposit of GOOD BROWN HEMATITE IRON ORE, which can be mined and delivered into South Wales for about 7s. 6d. per ton.  
Apply to PAGEN and Co., Metal and Mineral Brokers, &c., 41, George-street, Plymouth.

**FOR SALE, a FIRST-CLASS SECOND-HAND 80 in. CORNISH PUMPING ENGINE,** with several 11 ton BOILERS.  
Apply, WM. BENNETTS, Roskear, Camborne.

**FOR SALE, About 250 tons BESSEMER STEEL,** consisting of INGOT ENDS, &c.

60 tons	30 lb.	NEW STEEL RAILS.
50	40	" "
25	42	" "
20	50	" "
70	45 lb.	NEW IRON RAILS.
150	40	" "
40	35	" "
80	56	" "

With all fastenings complete, if required.  
Apply, "Rails," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

**BURLEIGH ROCK-DRILLING MACHINERY FOR SALE.**

THREE A size ROCK-DRILLING MACHINES. Will drill in hard rock up to 1½ in. diameter.  
ONE B size. Will drill up to 2 in. diameter in hard rock.  
TWO C size. Will drill up to 3 in. diameter in hard rock.  
ONE D size. Will drill up to 4 in. diameter in hard rock.  
ONE A size PORTABLE AIR COMPRESSOR. Will drive two B size ROCK DRILLING MACHINES,—driven by a pulley or gearing.  
The above are all new and offered at maker's prices.  
Apply to—  
CRAVEN BROTHERS,  
OSBORNE STREET, MANCHESTER.

**THE MINES OF THE UNITED KINGDOM.**—Now in the press, and will shortly be published, this important work, carefully compiled by THOMAS SPARGO, M.E., F.S.A. It will be profusely illustrated with plans and sections of the most celebrated mines in the kingdom, showing the mineral wealth of each district, and will also contain full information on the resources and prospects of the Mines now in operation, together with an authentic record and history of all mines that are no longer working.

Price 5s.  
Each application should be accompanied by stamps or P.O. Order payable to the author, THOMAS SPARGO, 4, Change-alley, Cornhill.

**J. S. MERRY, ASSAYER AND ANALYTICAL CHEMIST SWANSEA**  
SUPPLIES ASSAY OFFICE REQUIREMENTS AND RE-AGENTS.



IRISH CHURCH TEMPORALITIES COMMISSION.  
COUNTY OF TYRONE.SALE OF RENT AND REVERSION OF THE COAL MINES  
AND ROYALTIES OF DRUMGLASS.

THE COMMISSIONERS OF CHURCH TEMPORALITIES IN IRELAND are prepared to RECEIVE PROPOSALS for the PURCHASE of the RENT and REVERSION in the above COAL MINES and ROYALTIES, which are held under lease dated 2nd January, 1867, for 31 years from that date, at a rent of £30 a year, or 3d. a ton royalty, with a covenant against alienation, sale, or assignment by the lessee under a penal rent of £50 per annum.

The Mines are situated in the southern part of the Tyrone Coal Field, they extend from one mile north of Dungannon in the direction of Coalisland, and are traversed by the Dungannon and Cookstown Railway, recently opened. For conditions of sale and further particulars, apply to the Secretary to the Commissioners, 24, Upper Merion-street, Dublin.

**MINE.**—The ARGENTIFEROUS COPPER MINE at LA PRUGNE WILL BE DISPOSED OF, BY AUCTION, under the direction of Mr. LEFEBVRE, Notary, 34, Rue Tronchet, Paris, on April 20, 1880, at Three o'clock in the afternoon. Price required, 50,000 frs. Apply to the Notary, above-named; or at the Siège Social, 87, Rue Demours, Paris.

**PATENT TRUCK WINCHES, HAULING ENGINES, &c.,** for over and underground purposes. Worked with air or steam. Strong in pile, and effective.

A. HIGGINSON AND CO.,  
TOWER BUILDINGS, E., LIVERPOOL, W  
GREAT DISCOVERY OF TIN.

**BELOWDA MINE, ROCHE, CORNWALL.**—£1 Shares, fully paid, can be bought to-day at £1 10s. Must go to £10 per share and over.

## TO INVESTORS.

**BELOWDA TIN MINE.**—Shares can only be bought through a Stockbroker.

## TO SPECULATORS.

**BELOWDA TIN MINE.**—Capital only £25,000. Shares of £1 each, no liability, can be bought at 10s. premium on the Stock Exchange through any Stockbroker.

## NOTICE.

**BELOWDA TIN MINE.**—All persons having leisure should inspect this Mine. It is situated at ROCHE, CORNWALL.

**MINE "EL CALLAO,"**  
GUAYANA, VENEZUELA.

COUPONS OF SHARES ..... 322  
GOLD IN BARS.—Produce in the month of January, 1880, remitted Oza. to Messrs. Baring Brothers and Co. ..... \$337.11  
The Treasurer of the Company, G. BARNEWITZ. The President of the Company, A. SICCIONI.

**MINE "EL CALLAO,"**  
GUAYANA, VENEZUELA.

COUPONS OF SHARES ..... 322  
GOLD IN BARS produced in the month of February, 1880, and remitted to Messrs. Baring Brothers and Co. ..... 4098.62  
Dividend distributed in the month for each coupon ..... \$100  
The Treasurer, G. BARNEWITZ. The President of the Company, A. SICCIONI.

NANT-Y-MOCH MINING COMPANY  
(LIMITED).

Capital £10,000, in 10,000 Shares of £1 each.

Prospectuses and Shares may be obtained on application to Capt A. FRANCIS, M.E., Goginan, Aberystwith; or from ERNEST W. S. MURRANT, Esq., 8, St. Benét place, London, E.C.

SOUTH DARREN MINING COMPANY  
(LIMITED).

Notice is hereby given, that the directors have DECLARED a DIVIDEND of TWO SHILLINGS PER SHARE (free of income tax), payable at the Imperial Bank (Limited) on and after the 26th inst.

Notice is also hereby given, that the Transfer Books of the company will be closed from the 19th to the 26th inst., both days inclusive.

By Order, J. H. MURCHISON, London Manager.

8, Austin Friars, London, 14th April, 1880.

UNITED MEXICAN MINING COMPANY  
(LIMITED).

Notice is hereby given, that the ORDINARY HALF-YEARLY GENERAL MEETING of Proprietors will be HELD at the office of the company on WEDNESDAY, the 5th day of May next, at One o'clock precisely.

At this meeting John Dunnigton Fletcher, and George Harris, Esquires, will retire from office as directors, but being eligible offer themselves for re-election.

The two auditors, William Turquand and George Allen, Esquires, also retire, but offer themselves for re-election.

The above meeting will be converted into an EXTRAORDINARY MEETING for the purpose of considering and passing the following resolution:—

"That a Call of 2s. 6d. per share be, and the same is hereby, made on all the shareholders in the company, the same to be payable on the 1st day of June next."

The Transfer Books will be closed on the afternoon of the 24th instant, and reopened on the day succeeding the meeting.

By order of the Board, W. M. BROWNE, Secretary,  
Office: No. 3, Great Winchester-street Buildings, E.C.,  
London, 16th April, 1880.

RIO TINTO COMPANY  
(LIMITED).

Notice is hereby given that the SEVENTH ORDINARY GENERAL MEETING of the Shareholders will be HELD at the Cannon-street Hotel, London, E.C., on FRIDAY, the 23rd of April, 1880, at Two o'clock precisely, for the purpose of receiving the directors' report and statement of accounts, and for the Declaration of a Dividend.

Holders of share warrants to bearer will receive a ticket of admission on depositing their warrants at the company's office in London not later than 12 noon on the day of the meeting, or at the Deutsche National Bank in Bremen two days previously.

The retiring directors are William Macandrew, Esq., and Alexander Matheson, Esq., M.P., who being eligible for re-election offer themselves accordingly.

The retiring auditors are Messrs. Turquand, Youngs, and Co., who, being eligible for re-election, offer themselves accordingly.

The Transfer Books will be closed from Monday, the 19th, to Friday, the 26th inst., both days inclusive.

By order of the Board, R. J. FENNESSY, Secretary.

Offices of the Company: 2, Copthall Buildings,  
London, E.C., 16th April, 1880.

**STOCKS AND SHARES, FOREIGN BONDS, RAILWAYS, &c.,** BOUGHT AND SOLD. Reliable information given on Mining Properties and other Securities. Established Twenty Years.

PETERICK AND CO., 51, THREADNEEDLE STREET, CITY.

N.B.—We recommend for a certain rise ALSTON UNITED Mining Shares.

CAPTAIN ABSALOM FRANCIS, M.E.,  
GOGINAN, ABERYSTWITH.

CWM PRYF.—For present prospects, see report this week in *Mining Journal*. Shares will go to £5 before the end of 1880. A large tract of ground has been added to the present grant, making it one of the most extensive sets in the county of Cardigan. For the few remaining shares unissued out of the 20,000, applications may be made to the above before the 31st inst., from whom all particulars may be ascertained.—Goginan, 2nd April, 1880.

ABSALOM FRANCIS.

**TO SHAREHOLDERS AND INTENDING INVESTORS.**—Published this day, post free 1½ stamps, "SOW AND REAP"—the most reliable journal on Mining and Financial Matters. This month's issue contains some valuable selections for great profits, and hints on Stock Exchange matters. Published by Messrs. THOMPSON and SONS, Old Town-street, Plymouth.

**THE IRON AND COAL TRADES' REVIEW.** The IRON AND COAL TRADES' REVIEW is extensively circulated amongst the Iron Producers, Manufacturers, and Consumers, Coalowners, &c., in all the iron and coal districts. It is, therefore, one of the leading organs for advertising every description of Iron Manufactures, Machinery, New Inventions, and all matters relating to the Iron, Coal, Hardware, Engineering, and Metal Trades in general.

Offices of the Review: 7, Westminster Chambers, S.W.  
Remittances payable to W. T. Pringle.

In the Court of the Vice-Warden of the Stannaries.  
Stannaries of Devon.

IN the MATTER of the COMPANIES ACT, 1862, and of the FRANK MILLS MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, on Thursday, the 29th day of April inst., at Twelve o'clock at noon, at the Frank Mills Mine, in the parish of Christow, within the said Stannaries, in One or more Lots, and subject to such other conditions as shall be then and there produced, all that the INTEREST of the said company of and in the GRANT or SETT under which its operations have been carried on, together with the WHOLE of the VALUABLE and EXTENSIVE MINING PLANT,

MACHINERY, MATERIALS, and EFFECTS belonging to the said company, and comprising ONE PUMPING ENGINE, 60 inch cylinder, 10 feet stroke, with TWO BOILERS, 12 and 10 tons, balance hob, shafts, and two shives, shaft tackle, with shives and landing brace, ONE STEAM WHIM, 25 inch cylinder, 7 feet stroke, with ONE BOILER, 10 tons, cage and fly wheel complete; 340 fathoms 7 inch flat hemp rope, two double chains attached; steam capstan attached to whim complete; 115 fathoms 14 inch round capstan rope; ONE STEAM CRUSHING ENGINE, 25 inch cylinder, 5 feet stroke, with ONE BOILER, 10 tons, fly-wheel complete, crusher complete; saw mill, bench, four circular saws, tram road belts, &c., complete; about 150 feet 3 and 2 inch shafting, with cog wheel, fly wheel, &c., for driving jiggers, six jigging machines and hutchies; parts of Dinger's pulverisers; ONE LOWER CRUSHER, 22 inch cylinder, 3½ ft. stroke, with BOILER and fly wheel complete; CRUSHER, with iron shaft and driving wheels for working ditto; and numerous other articles and effects in general use in mines, and also the account-house furniture.

To inspect the said machinery apply to the Bailiff in charge at the said mine, and for further particulars to the Official Liquidator of the said company at the Stannaries Court Office at Truro.

HODGE, HOCKIN, AND MARRACK, Truro  
(Agents for John Daw and Son, Exeter, Solicitors for the said Official Liquidator).

Dated Stannaries' Court Office, Truro, April 12, 1880.

In the Court of the Vice-Warden of the Stannaries.  
Stannaries of Devon.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the TEIGN VALLEY LEAD AND BARYTES MINING COMPANY (LIMITED).—ALL CREDITORS or CLAIMANTS of the above-named company, who have not received notice from the Official Liquidator (hereof that their claims have been already admitted, are hereby required to COME IN and PROVE their several DEBTS or CLAIMS at the Registrar's Office, Truro, on Wednesday, the 28th day of April instant, at Eleven o'clock in the forenoon; or, in default thereof, they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such proof. And for the purpose of such proof they are to attend in person, or by their solicitors or competent agents, at the time and place above mentioned.

FREDERICK MARSHALL, Registrar.  
Dated Registrar's Office, Truro, 15th April, 1880.

In the Court of the Vice-Warden of the Stannaries.  
Stannaries of Cornwall.

PURSUANT TO A DECREE MADE IN A CAUSE OF LEWARNE AND ANOTHER VERSUS DYER.

THE CREDITORS in respect of the PARK OF MINES, in the parish of ST. ENODER, within the said Stannaries, are on Wednesday, the 21st day of April instant, at the hour of Eleven o'clock in the forenoon, to COME IN and PROVE THEIR DEBTS before the Registrar of the said Court, at his office in Truro.

HODGE, HOCKIN, AND MARRACK, Truro.  
(Plaintiffs' Solicitors.)  
Dated Registrar's Office, Truro, April 14th 1880.

IN LIQUIDATION.  
FORCE CRAGG LEAD AND BARYTES MINE AND WORKS.

SITUATE AT BRAITHWAITE, NEAR KESWICK, IN THE COUNTY OF CUMBERLAND, FOR SALE.

TENDERS will be received by the UNDERSIGNED, on or before the 26th day of April, 1880, stating the HIGHEST PRICE which will be given for the above VALUABLE MINE AND WORKS, now in full working order. The set is a very large one, and contains veins of COBALT, MANGANESE, LEAD ORE, and BARYTES. A tramway runs through the set, and there are two mills driven by water power for grinding barytes, plant for bleaching barytes; set of stamps and water-wheel for crushing lead ore. Royalty very low, and dead rent only £25 a year, merging into royalty.

T. Richards, Esq., F.G.S., Bond-street, Redruth, inspected the property recently, and his report, with any further information required, can be had on application to Mr. JOHN FEARON, Accountant, Cockermouth, one of the Liquidators, Cockermouth, March 8, 1880.

## SOUTH WALES—VALUABLE LEAD MINE.

MESSRS. EDWIN FOX AND BOUSFIELD WILL SELL at the Mart, on Wednesday, May 12th, at Two, a VALUABLE MINERAL PROPERTY in CARDIGANSHIRE, upon the Willoughby De Broke Estate, about three miles from the Devil's Bridge, Hafod, and fifteen from Aberystwith known as the DE BROKE MINE.

Well placed in a locality highly prolific of minerals, the mine itself being of repute for its productiveness.

The principal lode is large, and similar to that of the Fronch vein, of which it is a continuation. The lodes are strong, well defined, and show indications of yielding ore in depth.

There is all sufficient machinery, well placed and strong, and the dressing apparatus and flooring arranged so that the cost in that department is at a very easy rate. Water is abundant, and the general working charges light.

Particulars of HENRY TAYLER, Esq., Solicitor, 44, Finsbury-circus, E.C.; at the Mart; and of Messrs. EDWIN FOX and BOUSFIELD, 59, Gresham-street, Bank, E.C.

CEFN COCH GOLD MINE, LLANELLYTID,  
NEAR DOLGELLEY.

SALE OF MACHINERY, PLANT, BUILDINGS, &c.

MESSRS. WM. DEW AND SON have been instructed by Messrs. ROBERTS and LEWIS, to SELL, BY PUBLIC AUCTION, on the Premises, as above, situated within four miles of Dolgellay, on the Trawsfynydd Road, on Tuesday, the 4th May, 1880.—

FOUR Mossier's PATENT CLASSIFIERS, 5 ft. diameter; 2 ditto, 7 ft. diameter.

34 ft. of 4½ in. WROUGHT IRON SHAFTING, with four 3 ft. and two 20 in. diameter pulleys; 30 ft. 5 in. diameter SHAFTING, with pulleys; 100 ft. 2 in. diameter WATER PIPE, with brass taps.

TWO SETS of five each Daglish's PATENT GOLD QUARTZ STAMPS (or batteries); 3 in. diameter turned iron arms, 13 ft. long; 27 ft. 4½ in. SHAFTING, with 6 ft. diameter main, and two 3 ft. driving pulleys.

Hood and Co.'s patent powerful IRON STONE CRUSHER, with two 3 ft. 9 in. diameter 4 in. breast fly wheels.

Daglish's patent HORIZONTAL HIGH PRESSURE STEAM ENGINE, 25 nominal horse power, with large fly-wheel, 10 ft. 10 in. diameter, 9 in. breast; main pulleys, 7 ft. diameter, 14 in. breast; shafting, couplings; wrought-iron ½ in. plate fly BOILER, 30 ft. long, 6 ft. diameter; patent gauge, by Hopkinson and Co.; steam piping, &c.; about 100 ft. of 6 in. diameter steam piping; large wrought-iron ½ in. plate WATER TANK, 10 ft. high, 8 ft. diameter; stop valve; overflow pipe; four stone crucks; wooden tanks; copper sieves; troughs.

The wooden erection of the whole range of the extensive BUILDINGS and FLOORINGS; patent WEIGHING MACHINE; stable fittings; copying press; Britten pans, &c.

SALE TO COMMENCE AT ELEVEN A.M. PROMPT.

Catalogues giving full description may be had at any of the Hotels in North Wales, Liverpool, Manchester, and Birmingham; of the Auctioneers, Wellfield House, Bangor, and Town Hall, Rhyl; and of the Printer, Mr. J. R. BROWN, High-street, Bangor.

## TO BE SOLD BY PUBLIC AUCTION,

under Decree of the Supreme Court of Newfoundland in Equity, in a suit between CHARLES FOX BENNETT, Plaintiff, and SMITH, MCKAY, and LEANDER GILL, Defendants, on Thursday, the 1st day of July next, at Twelve o'clock noon (if not previously disposed of by private sale), at the Court House, St. John's, Newfoundland, that VALUABLE COPPER MINE and MINING PROPERTY called and known as the

## UNION MINE.

Situate on the east and west sides of Tilt Cove, on the north side of Notre Dam or Green Bay, Newfoundland, and near Cape John, with all erections, improvements, plant, and other property and effects thereto appertaining. The Mine is held under Grant in fee from the Government of Newfoundland, containing two miles in length by half a mile in breadth; a License of Occupation from the said Government containing one mile square west of and adjoining the Crown Grant, and land held under conveyance of fee simple interest of former owners.

The title-deeds and documents, plans and surveys and Conditions of Sale of the property may be seen, and further information may be obtained, by application to PRESCOTT EMERSON, Esq., Q.C., Master in Chancery, at his office, in St. John's, or to either of the undersigned solicitors for the parties, or to either of the parties.

PRESCOTT EMERSON, Q.C.,  
Master in Chancery, St. John's, Newfoundland.

January 23rd, 1880.

For further particulars apply to C. T. BENNETT, Esq., 55, Queen's-square, Bristol; Messrs. HENRY BATH and SONS, Gresham House, London; or to PENSIN and GREENE, Solicitors for the Plaintiff; WINTER and CARTER, Solicitors for Defendant, MCKAY.

## PIT SINKING, WINDING COAL, PUMPING, &amp;c.

PORTABLE STEAM ENGINE FOR SALE, with two 13½-inch cylinders, fitted with link-motion reversing gear, large boiler, with or without road travelling wheels, and winding and pumping gear.

Also a double 9½-in. cylinder PORTABLE ENGINE.

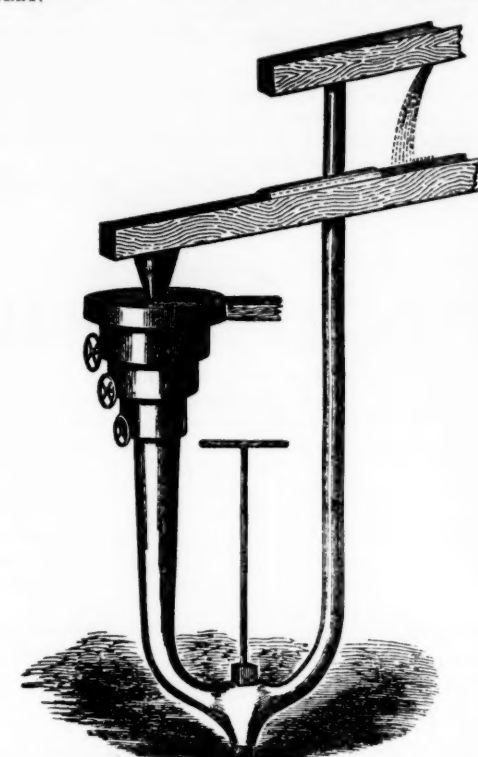
A 9½-in. cylinder VERTICAL ENGINE, with winding drum, complete.

An 8-in. cylinder VERTICAL HOISTING ENGINE, with winding drum complete. To be seen at—

NARROWS AND STEWART'S WORKS, BANBURY, OXON.

IMPROVED AND ECONOMIC ORE DRESSING  
MACHINERY.

MESSRS. W. NANCE AND CO., Mining Engineers, NORTH SHIELDS, call attention to their IMPROVED ORE DRESSING MACHINERY.



It will be seen from the above illustration that the apparatus consists of a series of pans of different diameters placed vertically or diagonally, and is specially intended to separate minerals and metals from their gangue, and at the same time in the same operation to classify any number of minerals of different specific gravity which may be associated. The minerals under treatment are submitted to a series of hydraulic currents in the said pans, such currents being regulated to suit the specific gravity of the mineral.

Messrs. NANCE AND CO. claim for this system of dressing an economy of 90 per cent. of labour and 90 per cent. of the ore wasted under the other systems, whilst the first outlay is only one-half that of any other system, and is at the same time applicable to all existing arrangements and all kinds of ore, including gold washing, refining china-clay and earths for potteries.

Improved Air-Cushioned Piston Jiggers and Vanning and Percussion Tables supplied, with all kinds of machinery.

NANCE AND CO.,  
MINING ENGINEERS,  
STANLEY-STREET WEST, NORTH SHIELDS.

THE BIRMINGHAM RAILWAY CARRIAGE AND  
WAGON COMPANY  
(LIMITED)

MANUFACTURE RAILWAY CARRIAGES and WAGONS OF EVERY DESCRIPTION, for HIRE and SALE, by IMMEDIATE or DEFERRED PAYMENTS. They have also WAGONS FOR HIRE capable of carrying 6, 8, and 10 tons, part of which are constructed specially for shipping purposes. Wagons in working order maintained by contract.

MANUFACTURERS also of IRONWORK, WHEELS, and AXLES.

EDMUND FOWLER, Managing Director.

WORKS.—SMETHWICK, BIRMINGHAM.

STAG HOTEL,  
FAMILY, COMMERCIAL, AND POSTING.

Opposite the Railway Station,  
LISKEARD.

MINING GENTLEMEN will find every accommodation, at moderate charges.

JOHN CLEAVE,  
LISKEARD, CORNWALL.

86, 87, 88,  
BISHOPSGATE  
STREET  
WITHIN.

THE BODEGA,  
86, 87, 88,  
BISHOPSGATE  
STREET  
WITHIN.

Wines of the well known brand of the BODEGA are sold in dock sample glasses by the bottle, dozen, and quarter cask. Champagnes of every noted shipper by the bottle and glass. The prices are graduated from the wholesale shipment to the single glass. It is this system which has won for the BODEGA its great success, and which has been pointed out at great length both in the Times and other journals.

The premises stand on the historic site of the old Green Dragon, and are the largest in the United Kingdom devoted to the sale of wines wholesale and retail.

"The convivial spirit of the old house still haunts the spot, and refuses to be exorcised. . . . It is just the place for a Mining Exchange, and by the silent but irresistible law of fitness it seems already to have been so constituted."—*Mining Journal*.—"The cosiness of a private club and the economy of the BODEGA are most happily combined."—*Continental Gazette*.

Also at 42, GLASSHOUSE-STREET; 13, OXFORD-STREET; 5 and 6, BUCKLESBURY THE ARCHES, LUDGATE HILL; and 72, MARK-LANE, LONDON.

CLERICAL, MEDICAL, AND GENERAL LIFE ASSURANCE  
SOCIETY.

13, St. James's Square, London, S.W.

City Branch: Mansion House Buildings, E.C.

DISTINCTIVE FEATURES.

CREDIT of half the first five Annual Premiums allowed on whole-term Policies on healthy Lives not over 60 years of age.

ENDOWMENT ASSURANCES granted, without Profits, payable at death or on attaining a specified age.

INVALID LIVES assured at rates proportioned to the risk.

CLAIMS paid thirty days after proof of death.

BONUS.

The Reversionary Bonus at the Quinquennial Division in January, 1877 amounting to £357,014, averaged 50 per cent., and the Cash Bonus 30 per cent., on the Premiums paid in the five years.

The Next Division of Profits will take place in January, 1882, and Persons who effect New Policies before the end of June next will be entitled at that Division to one year's additional share of Profits over later Entrants.

REPORT, 1879.

The 55th Annual Report, and the latest Balance Sheets rendered to the Board of Trade can be obtained at either of the Society's Offices, or of any of its Agents.

GEORGE CUTCLIFFE, ACTUARY AND SECRETARY.

## CORNISH MINING.

MR. CHAS. BAWDEN, MINING ENGINEER, ST. DAY,  
SCORRIER, CORNWALL.

Has pleasure in reminding his clients and friends that the EIGHT MINES specially recommended in the beginning of last August ROSE IN MARKET VALUE 375 PER CENT. within that short period, besides the dividends declared in the meantime.

A reaction from the recent lull has again set in, and I predict a similar rise in half a dozen others within the ensuing six months,—two in particular will have the greatest rise of any in Cornwall. Clients and friends are recommended to embrace the earliest opportunity.





PARIS, 1867. BRONZE MEDAL, 1867.



ORDER OF THE CROWN OF PRUSSIA.



FALMOUTH, 1867. SILVER MEDAL, 1867.

**A DIPLOMA—HIGHEST OF ALL AWARDS**—given by the Geographical Congress, Paris, 1875—M. Favre, Contractor, having exhibited the McKean Drill alone as the MODEL BORING MACHINE for the ST. GOTHARD TUNNEL.

**SILVER MEDAL** of the Highland and West of Scotland Agricultural Society, 1875—HIGHEST AWARD.

At the south end of the St. Gothard Tunnel, where

## THE MCKEAN ROCK DRILLS

Are exclusively used, the advance made during eight consecutive weeks, ending February 7, was 24'90, 27'60, 24'80, 26'10, 28'30, 27'10, 28'40, 28'70 metres. Total advance of south heading during January was 121'30 metres, or 133 yards.

In a series of comparative trials made at the St. Gothard Tunnel, the McKean Rock Drill continued to work until the pressure was reduced to one-half atmosphere (7½ lbs.), showing almost the entire motive force to be available for the blow against the rock—a result of itself indicating many advantages.

The GREAT WESTERN RAILWAY has adopted these Machines for the SEVERN TUNNEL; the LONDON AND NORTH-WESTERN RAILWAY for the FESTINIOG TUNNEL; and the BRITISH GOVERNMENT for several Public Works. A considerable number of Mining Companies are now using them. Shafts and Galleries are driven at from three to six times the speed of hand labour, according to the size and number of machines employed, and with important saving in cost. The ratio of advantage over hand labour is greatest where the rock is hardest.

These Machines possess many advantages, which give them a value unapproached by any other system of Boring Machine.

THE MCKEAN ROCK DRILL IS ATTAINING GENERAL USE THROUGHOUT THE WORLD FOR MINING, TUNNELLING, QUARRYING, AND SUB-MARINE BORING.

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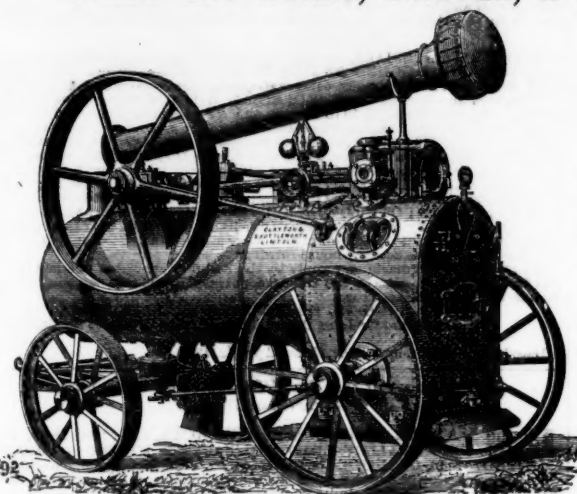
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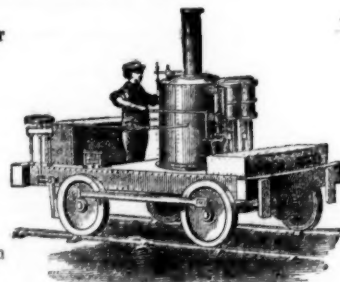
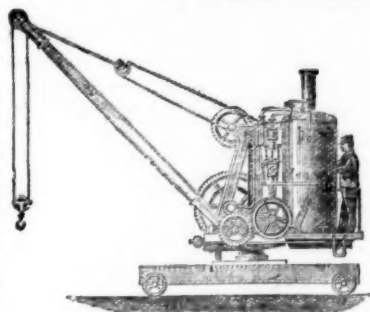
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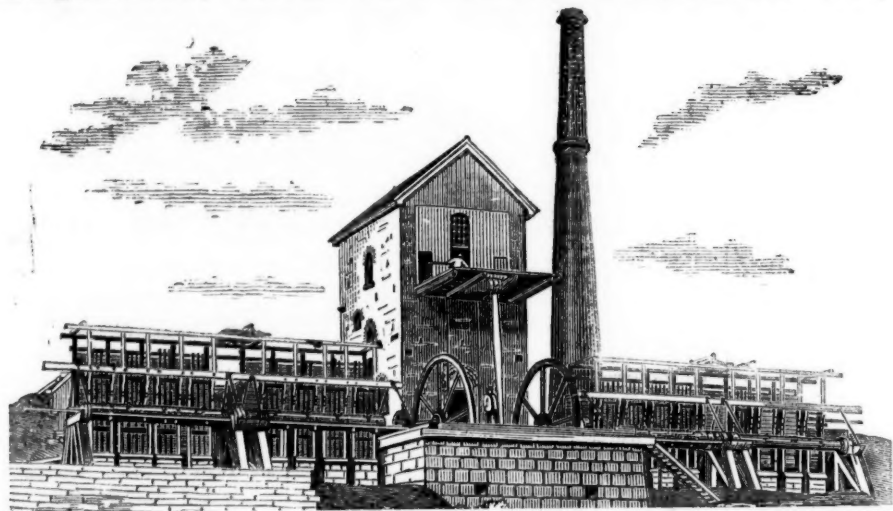
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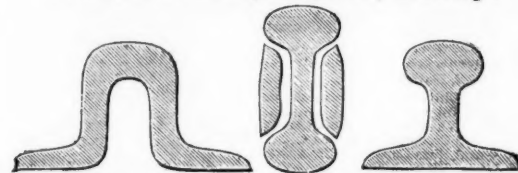
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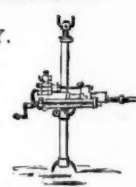


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10000 Caron, t, Cardigan*.....	2 0 0	2 1/4	1 1/4	0 4 0	0 2 0	Oct. 1878
10000 Carn Brea, c, t, Illogan*.....	58 7 6	96	84 86	308 0 0	1 0 0	Feb. 1874
10240 Devon Gr. Consols, c, t, Tavistock*.....	1 0 0	15	13 14	117 3 0	0 8 0	Feb. 1880
4236 Dolcoath, c, t, Camborne.....	10 14 10	60	55 57	116 11 3	1 2 0	Apr. 1880
6400 East Pool, t, c, Illogan.....	0 9 9	36	33 35	18 15 3	1 2 0	Mar. 1880
40000 Glas. Car. c, [30000 sh. £1 pd., 10000 15s. pd.].....	1 1/4	1 1/4	1 1/4	0 13 10	0 0 6	Aug. 1878
5000 Gossard and Merilyn Con., t, Flint.....	2 10 0	2 1/2	2 1/2	0 5 0	0 5 0	Apr. 1877
15000 Great Laxey, t, Isle of Man*.....	4 0 0	19 1/2	18 1/2	25 14 0	0 8 0	Apr. 1880
6400 Green Hurth, t, Durham*.....	0 6 0	8	7 1/2	2 10 0	0 5 0	Mar. 1880
20000 Grosvenor, t, Cardigan*.....	2 0 0	3 1/4	3 1/4	0 14 10	0 1 10	Aug. 1878
2800 Isle of Man, t, Isle of Man*.....	25 0 0	—	—	82 5 0	0 10 0	Feb. 1879
20000 Lerdhills, t, Lanarkshire.....	6 0 0	3 1/4	3 1/4	0 15 0	0 3 0	Mar. 1878
400 Lisburne, t, Cardiganshire.....	18 15 0	37 1/2	35 37 1/2	600 10 0	1 0 0	Mar. 1880
10000 Mellanar, c, Hayle.....	2 6 0	6	5 5 1/2	0 16 0	0 2 0	Apr. 1880
5000 Miners Mining Co., t, Wrexham*.....	5 0 0	—	—	68 9 2	0 4 0	Feb. 1880
20000 Mining Co. of Ireland, c, t, t.....	7 0 0	3 1/4	3 1/4	24 0 0	0 2 0	Jan. 1880
5328 North Busy, t, c, Chacewater.....	0 5 8	1 1/2	2 1/2	0 3 4	0 10 0	Oct. 1878
11829 North Hendre, t, Wales.....	2 10 0	—	—	3 10 0	0 7 6	Mar. 1880
8063 Ditto.....	1 0 0	—	—	0 7 0	0 3 0	Mar. 1880
6000 Pennant, t, bar, North Wales*.....	1 0 0	3	3 1/4	0 10 0	0 5 0	Mar. 1878
12000 Phoenix United, t, c, Link.....	5 10 3	5 1/2	5 1/2	0 2 6	0 2 6	Mar. 1880
18000 Pr. Patrick, s, t, (als. 12000 pf. 10 p.c.).....	1 0 0	3	2 1/2	0 16 6	0 1 6	Dec. 1879
10000 Red Rock, t, Cardigan.....	2 0 0	2 1/4	1 1/4	3 4 0	0 2 0	Jan. 1878
12000 Roman Gravel, t, Salop*.....	7 10 0	10 1/2	10 10 1/2	8 1 0	0 5 0	Feb. 1880
4000 Rhydydd, t, Wales.....	10 0 0	—	—	148 0 0	0 2 0	Apr. 1880
512 South Canavan, c, St. Cleer*.....	6 5 12	12	11 11 1/2	7 2 0	0 10 0	Apr. 1880
6123 South Condurrow, t, c, Camborne.....	6 5 12	12	11 11 1/2	7 2 0	0 10 0	Apr. 1880
9000 South Darren, t, Cardigan*.....	1 10 0	3 1/4	3 1/4	0 4 0	0 2 0	Apr. 1880
4500 South Wheel Franks, t, Illogan*.....	7 12 4	19	17 18	40 5 6	0 16 0	Mar. 1880
12000 Tankerville, t, Salop*.....	6 0 0	5	4 1/2	4 17 6	0 5 0	Jan. 1877
6000 Tinscroft, c, t, Pool, Illogan*.....	11 10 0	19 1/2	18 19	50 8 6	0 5 0	May 1877
15000 Van, t, Llanidloes*.....	4 5 0	19	18 1/2	24 10 6	0 10 0	Jan. 1880
3000 West Chiverton, t, Perranabuloe*.....	19 15 0	1 1/2	1 1/2	55 10 0	0 10 0	Feb. 1878
512 West Tolgus, c, Redruth.....	95 10 0	60	55 60	33 0 0	0 10 0	Jan. 1879
1200 West Wheel Seton, c, Camborne*.....	25 10 0	25	22 1/2	223 0 0	0 7 6	Apr. 1878
12000 Wheel Crebor, c, Tavistock.....	2 4 0	4 1/4	4 1/4	0 3 9	0 3 9	Mar. 1880
1024 Wheel Eliza Consols, t, St. Austell.....	18 0 0	—	—	30 10 0	0 3 0	Feb. 1880
4295 Wheel Kitty, t, St. Agnes.....	5 4 6	5 1/2	5 1/2	12 9 6	0 10 0	Jan. 1880
3000 Wheel Peavor, t, Redruth.....	7 11 0	30	28 29	4 1 0	1 12 6	Mar. 1880

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Shares.	Prtd.	Last wk.	Clos. pr.	Total divs.	Per sh.	Last pd.
35500 Alamillos, t, Spain*.....	2 0 0	1 1/2	1 1/4	2 0 9	0 1 0	Apr. 1880
20000 Almaden and Tinto Consol., s, t.....	1 0 0	—	—	0 6 3	0 1 0	May 1876
20000 Australian, c, South Australia*.....	7 7 6	2	1 1/2	1 3 6	0 2 0	Aug. 1879
20000 Cape Copper Mining, s, t, South Africa.....	7 0 0	40	37 39	37 7 6	0 17 6	Mar. 1880
35000 Cesena Sulph. Co., Romagna, Italy*.....	10 0 0	—	—	1 1 0	0 1 0	Aug. 1879
10000 Copiapo, c, Chili* (£20 shares).....	17 0 0	12	10 11	7 11 5	0 3 0	May 1877
23500 Eberhardt and Aurora, s, Nevada*.....	10 0 0	4 1/4	4 1/4	1 8 0	0 3 0	Dec. 1877
70000 English & Australian, t, c, S. Aust.*.....	2 10 0	1 1/2	1 1/2	2 18 9	0 1 0	Mar. 1880
25000 Fortuna, t, Spain*.....	2 0 0	5 1/2	5 1/2	7 11 5	0 5 0	Apr. 1880
55000 Frontino & Bolivia, s, New Gran.*.....	2 0 0	3 1/2	3 1/2	0 3 6	0 1 0	Feb. 1879
15000 Linares, t, Spain*.....	3 0 0	6	5 1/2	18 2 10	0 8 0	Apr. 1880
10000 Pontgibaud, s, t, France*.....	20 0 0	22	20 22	27 17 6	0 10 0	Dec. 1879
100000 Port Phillip, c, Clunes* (£2 shares).....	1 0 0	—	—	1 12 0	0 1 0	Mar. 1879
54000 Richmond Consol., c, Nevada*.....	5 0 0	15	14 1/2	8 4 6	0 7 6	Nov. 1880
40000 Santa Barbara, s, Brazil.....	0 10 0	2 1/2	2 1/2	0 8 9	0 1 0	Nov. 1879
120000 Scottish-Australian Mining Co., t.....	1 0 0	2 1/2	2 1/2	15 p. cent.	—	Nov. 1879
80000 Ditto, New.....	0 10 0	—	—	0 2 0	0 2 0	Nov. 1879
32000 Sentinel, s, t, California*.....	1 0 0	—	—	0 2 0	0 2 0	Nov. 1879
225000 Sierra Buttes, c, California*.....	2 0 0	1 1/4	1 1/4	2 0 0	0 2 0	Nov. 1879
40625 Ditto, Plumas Eureka.....	2 0 0	3	2 1/2	2 7 0	0 3 0	Oct. 1879
253000 St. John del Rey* (£45 Stock and multiples dealt in).....	245 255	12 1/2	12 1/2	12 1/2	0 3 0	for half-year, June 1879
20000 Tolima, s, Colombia.....	5 0 0	—	—	1 3 0	0 4 0	Mar. 1880
25000 Victoria* (London), s, Australia.....	1 0 0	—	—	0 13 1/2	0 7 1/2	June 1879
2100 W. Prussian (5500 pref. sh. £10 pd.).....	10 0 0	10 1/2	10 10 1/2	2 10 0	0 8 0	Apr. 1880

\* Have made calls since last dividend was paid.

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Shares.	Prtd.	Last wk.	Clos. pr.
25800 Aberllyn, t, bl, Carnarvon.....	1 0 0	1 1/4	1 1/4
12000 Assheton, t, Carnarvonshire.....	1 0 0	—	—
11583 Bedford Unit, s, t, Tavis (£11 sh.).....	0 4 0	—	—
30000 Betwys-y-Coed, s, t, (20000 sh. issued).....	1 0 0	—	—
8000 Blaen Caelan, t, Cardigan.....	3 0 0	—	—
3939 Blue Hills, t, c, St. Agnes.....	4 6 6	4	3 1/4
30000 Boddidris, t, bl, Denbighshire.....	1 0 0	1 1/4	1 1/4
200 Botallack, t, c, St. Just*.....	125 5 0	90	80 90
10000 British, s, t, Wrexham.....	2 0 0	—	—
258 Brownell, c, St. Neot.....	0 12 6	—	—
20000 Bulwark United, t, (£1 sh.) Cardigan.....	2 0 0	2 1/2	2 1/2
50000 Cambrian, s, t, c, Cardiganshire.....	2 0 0	2 1/2	2 1/2
6000 Carn Camborne, t, c, Camborne.....	0 2 6	2 1/2	2 1/2
20000 Carnarvon, s, t, Carnarvonshire.....	1 0 0	1 1/4	1 1/4
20000 Cen. Foxdale, t, I. of Man* (£2 sh.).....	1 5 0	—	—
5120 Clementina, t, Llanrwst*.....	1 0 0	1 1/4	1 1/4
20000 Coed Mawr Pool, t, Carnarvon.....	2 0 0	—	—
7500 Ombellack, t, t, Wrexham.....	2 0 0	—	—
8000 Combmartin, s, t, North Devon.....	0 8 6	—	—
24500 Cook's Kitchen, t, Illogan*.....	28 4 0	7	6 6 1/2
10000 Cornhill Great Consols, Callington.....	4 0 0	—	—
6400 Crook Burn, t, Cumberland.....	0 5 0	—	—
10000 Crosswood Mining Lands, t.....	1 0 0	1 1/4	1 1/4
15000 Cwm Dywfor, c, s, t, Carnarvon.....	1 0 0	—	—
25000 Cwm Pryt, t, Wales.....	1 0 0	—	—
1280 D'Eresby Consols, t, bl, Carnarvon.....	10 0 0	—	—
1024 D'Eresby Mountain, t, bl, Llanrwst.....	20 0 0	—	—
20000 Denbighshire Consolidated, t.....	0 2 0	—	—
12000 Derwent, t, t, Durham (125000 iss.).....	4 0 0	1 1/4	1 1/4
100000 Dubby Syke, t, Durham*.....	0 17 6	—	—
6144 East Canavan, c, St. Cleer*.....	3 4 6	3 1/2	3 1/2
4000 East Chiverton, t, Perranabuloe.....	9 10 3	1 1/2	1 1/2
3000 East Craven Moor, t, t, Pateley Bdg. ....	10 0 0	—	—
12000 East Crebor, c, Tavistock.....	0 1 0	—	—
30000 East Florida, s, t, Cardiganshire.....	1 0 0	1 1/4	1 1/4
10000 East Longstone, t, t, Llanrwst.....	2 0 0	—	—
21000 East Roman Gravel, t, Salop.....	0 10 0	—	—
18000 East Van, t, Llanidloes*.....	5 0 0	3 1/2	3 1/2
4096 East Wheel Buller, t, c, Gwennap.....	0 10 0	—	—
1114 East Wheel Lovell, t, Helston.....	13 8 6	3	2 3
30000 Flintshire Great Consols*.....	1 0 0	—	—
6000 Florence, s, t, bl, St. Ive.....	5 0 0	—	—
10000 Fortescue, s, t, St. Stephens.....	1 0 0	—	—
10000 Frongoch, t, Cardigan (10000 sh. iss.).....	2 0 0	—	—
12000 Glyn, c, t, Tavistock.....	2 0 0	—	—
15000 Glyn, c, t, (10000 sh. iss.).....	60 0 0	—	—
10000 Glenroy, s, t, Isle of Man.....	4 0 0	1 1/4	1 1/4
20000 Great Dyffryn (10000 sh. issued).....	1 0 0	—	—
20000 Gt. E. Foxdale, t, I. of Man (£1 sh.).....	0 13 0	—	—
12000 Great Holway, t, Flintshire.....	5 0 0	5	4 5
6000 Great Wh. Eleanor, t, North Bovey.....	2 0 0	—	—
20000 Griffin, s, t, Carnarvon.....	1 0 0	—	—
9880 Guntillass (Chilres), t, c, Flintshire.....	4 0 0	7 1/2	5 6 1/2
10000 Gwyn-y-Mynydd, s, t, Flintshire.....	4 0 0	5 1/2	5 1/2
10000 Harewood Hill, t, Durham (£1 sh.).....	0 5 0	—	—
1200 Hartington Moor, s, t, carb. t, Derby.....	1 0 0	1 1/2	1 1/2
6400 Harwood, t, Durham.....	0 15 0	—	—
3000 Herodfoot, t, near Liskeard.....	1 0 0	—	—
18000 Hingston Down, c, Calstock*.....	0 7 0	1 1/2	1 1/2
6000 Killfret, t, Chacewater.....	3 5 0	—	—
10000 Lady Ashburton, s, t, Callington.....	1 0 0	—	—
15000 Lady Bertha, c, Tavistock.....	2 0 0	—	—
12000 Ladywell, t, Salop (20000 pf. also).....	2 10 0	—	—
5000 Lead Era, t, Mold.....	2 10 0	1 1/2	1 1/2
25000 Levant, c, t, St. Just.....	11 0 0	20	20 21
15000 Llandegla, t, Llanarmon.....	1 0 0	1 1/4	1 1/4
6000 Llansawel, t, Wales.....	5 0 0	—	—
10000 Llanymor, s, t, Helston.....	1 0 0	—	—
5120 Lovell, t, Wrexham.....	0 16 0	1 1/4	1 1/4
30000 Llanrwst, t, t, Carnarvon.....	2 0 0	—	—
7500 Ditto, 10 per cent. pref. £1 sh. 6d. ....	1 0 0	—	—
9000 Marke Valley, c, t, Linkinhorne.....	5 8 6	1 1/2	1 1/2
16000 Mawston, t, South Wales.....	1 0 0	1 1/2	1 1/2
6000 Medlyn Moor, t, Wrexham.....	3 15 10	—	—
23000 Mid-Devon, s, t, (£17000, 3s. 4d. pd.).....	0 8 8	—	—
8000 Mineral Corporation of Gt. Britain*.....	10 0 0	—	—
8000 Mona, s, t, Angles.....	5 0 0	15	13 15
10000 Mynydd Gwddu, t, Cardigan*.....	3 0 0	3 1/2	3 1/2
12000 Morla Du, t, c, Angles.....	0 10 0	—	—
6144 Mount Carey, t, Redruth.....	0 10 0	1 1/4	1 1/4
4678 New Broadford, s, t, Cardigan (£5 sh.).....	3 16 0	—	—
12000 New Cathedral, c, t, Gwennap.....	1 0 0	—	—
2400 New Cook's Kitchen, t, Illogan.....	7 0 0	6 1/2	6 1/2
8000 New Dolcoath, t, c, Camborne.....	3 0 0	—	—

## NON-DIVIDEND MINES—continued.

Shares.	Prtd.	Last wk.	Clos. pr.
6000 New Kitty, t, St. Agnes.....	0 0 0	1 1/4	1 1/4
10000 New Llanfair, t, Carnarvon.....	1 0 0	—	—
3000 New Wheel Peavor, t, Redruth.....	0 10 0	—	—
3500 New Tincroft, t, Lelant.....	6 0 0	—	—
35000 New Wye Valley, t, Montgomery*.....	1 0 0	1 1/4	1 1/4
5000 North Alfred Consols, c, Phillack.....	9 2 0	—	—
10000 N. D'Eresby Mount, s, t, bl, Carnarv.....	1 0 0	—	—
12000 Nodda, t, t, St. Just*.....	13 6 0	—	—
2000 North Levant, s, t, St. Just*.....	3 0 0	7	6 1/2
50000 North Molton, s, t, m, t, Devon.....	1 0 0	—	—
6000 North Penrith, t, t, c, Gwennap.....	0 10 0	—	—
2936 North Trekerby, t, St. Agnes.....	8 17 10	—	—
12000 Pandora, t, t, Carnarvon.....	2 0 0	—	—
30000 Pant-y-Mwyn, t, t, Mold.....	2 0 0	2 1/2	2 1/2
6000 Parnacombe, s, t, Devon.....	0 5 0	—	—
45000 Parys Corporation, s, t, Angles.....	1 0 0	1 1/4	1 1/4
7500 Pateley Bridge, t, Yorkshire.....	1 0 0	—	—
15000 Ditto (also 1500 sh. not issued).....	0 17 0	—	—
12000 Pen-y-Osred, t, t, Flintshire.....	1 0 0	1 1/4	1 1/4
5000 Penrhalls, t, St. Agnes*.....	3 17 6	3 1/2	2 1/2
15000 Perran Consols, s, t, Perranabuloe.....	1 0 0	—	—
7000 Picton, s, t, t, Holywell, fully paid.....	1 0 0	—	—
6000 Plympton Mining and Arsenic*.....	1 0 0	—	—
12000 Plympton, t, Llanidloes*.....	2 0 0	—	—
10000 Polrose, t, Cornwall.....	0 10 0	—	—
10000 Port Nigel, s, t, t, Carnarvonshire.....	2 0 0	—	—
12000 Prince of Wales, c, St. Calstock.....	0 7 6	—	—
12000 Ralsleigh, t, c, St. Blazey.....	0 5 0	—	—
50000 So. Cambrian, t, t, Cardiganshire.....	1 0 0	1 1/4	1 1/4
30000 South D'Eresby Mountain, t.....	1 0 0	1 1/4	1 1/4
512 South Dolcoath, c, t, Redruth.....	12 5 0	—	—
6000 South Penrith, t, t, c, Gwennap.....	0 10 0	—	—
5000 So. Prince of Wales, s, t, Calstock.....	1 0 0	—	